QUICK Install Guide

PerforMAX®
400AH FILL VALVE

INSTALL WITH CONFIDENCE
TOOLS NEEDED

Pliers  Towel  Bucket  Sponge
GETTING STARTED

PARTS OVERVIEW

- Refill Tube Clamp
- Tank Water Level Adjustment Screw
- Bowl Water Level Adjustment Roller Clamp
- Refill Tube
- Refill Tube Clamp
- Refill Clip
- Shank Washer
- Locknut
- Bowl Water Level Adjustment Roller Clamp
- Tank Water Level Adjustment Screw
**STEP 1: PREPARE TANK**

A: **TURN OFF WATER**

B: **DRAIN WATER**
Flush toilet to drain most of the water from the tank.

C: **USE SPONGE OR TOWEL TO SOAK UP EXCESS WATER IN TANK**

- Sponge
- Towel
A: REMOVE CONNECTOR
Remove water supply connector from bottom of fill valve by twisting connector nut to the left (clockwise).

B: REMOVE OLD LOCKNUT
Below tank, twist locknut to the left (clockwise) to remove from fill valve.

C: REMOVE OLD FILL VALVE
Drain any excess water into bucket by removing fill valve from tank. (Pull fill valve up)
STEP 3: ADJUST HEIGHT OF NEW FILL VALVE

A: TWIST FILL VALVE TO ADJUST HEIGHT
Top of fill valve cap should measure roughly 3" above top of overflow pipe.
FOR STANDARD FLUSH VALVES

 Fill Valve Cap

 TOP OF FILL VALVE CAP

 3”

 TOP OF OVERFLOW PIPE

 Overflow Pipe

FOR CANISTER FLUSH VALVES

 TOP OF FILL VALVE CAP

 3”

 TOP OF OVERFLOW PIPE

 Overflow Pipe

 Overflow Pipe
STEP 4: INSTALL NEW FILL VALVE

A: INSTALL SHANK WASHER
Pull up to top of shank.

* Place shank washer onto threaded shank of fill valve. WIDE SIDE UP.

B: PUSH REFILL TUBE ONTO REFILL PORT FIRST
Squeeze tube clamp arms and move it towards refill port.

C: ATTACH REFILL CLIP TO OVERFLOW PIPE

D: INSERT FILL VALVE
Position refill tube to face overflow pipe.
E: INSTALL LOCKNUT
Screw locknut to the right (counterclockwise) onto fill valve shank (below tank).

F: ATTACH REFILL TUBE TO REFILL CLIP
Squeeze tube clamp arms and move it towards refill clip. **Note:** If refill tube is too long, cut tube.

**Standard Flush Valves**

**Canister Flush Valves**
**STEP 5: FINISHING STEPS**

**A: ATTACH WATER SUPPLY CONNECTOR TO FILL VALVE**

Twist to the right (counterclockwise)

**B: TURN ON WATER**

Check for leaks.

(See Troubleshooting for leak solutions)

**C: WATER LEVEL**

After the tank stops filling, water level should fill the tank to roughly ½ inch below top of overflow pipe to ensure a proper flush.

See diagrams on next page.
FOR STANDARD FLUSH VALVES

Top of Overflow Tube

1/2"

Water Level

Overflow Pipe

TOP DOWN VIEW

FOR CANISTER FLUSH VALVES

Top of Overflow Pipe

1/2"

Water Level

Overflow Pipe

See page 12 to fine-tune TANK Water Level
STEP 6: FINE-TUNE TANK WATER LEVEL

A: FLUSH THE TOILET TO CHECK THE TANK WATER LEVEL
After the water stops filling the tank, the water level should be roughly \( \frac{1}{2} \) inch below the top of overflow pipe to ensure a proper flush.

B: WATER LEVEL IS TOO LOW
Turn the tank water level adjustment screw clockwise to raise the float. Flush to reset water level.

WATER LEVEL IS TOO HIGH
Turn the water level adjustment screw counterclockwise to lower the float. Flush to reset water level.
FOR STANDARD FLUSH VALVES

Tank Water Level Adjustment Screw

Top of Overflow Pipe

1/2"

Overflow Pipe

Water Level

FOR CANISTER FLUSH VALVES

Tank Water Level Adjustment Screw

Top of Overflow Pipe

1/2"

Overflow Pipe

Water Level

Float
STEP 7: FINE-TUNE BOWL WATER LEVEL

A: FILL BOWL WITH A GALLON OF WATER
Wait 1 minute until the bowl water level recedes down and stops.

B: MARK THE WATER LEVEL IN THE BOWL
With a pencil, draw a line at the top of the water level in bowl.

C: FLUSH TOILET TO CHECK BOWL WATER LEVEL
If the water level matches the line you’ve made in the bowl when the fill valve stops filling the tank, the water level is correct, proceed to Step 8.
If the water level matches the line in the bowl and the fill valve is **STILL FILLING**, then the bowl water level is **TOO HIGH**, proceed to Step 7D.

If the valve shuts off and the water level **does NOT match the line** in the bowl, the water level is **TOO LOW**, proceed to Step 7D.

**D: ADJUST THE BOWL WATER LEVEL**

**TOO HIGH** = Turn roller clamp with thumb to the next **LOWER** number.

**TOO LOW** = Turn roller clamp with thumb to next **HIGHER** number.

**NOTE:** “0” on roller clamp equals no refill to bowl.

**E: FLUSH TOILET, CHECK BOWL WATER LEVEL**
Repeat Steps 7D and 7E until water level in bowl matches the line when the fill valve shuts off.
STEP 8: FLUSH THE TOILET

A: FLUSH THE TOILET
If you’re satisfied with the flush, YOU’RE DONE!
YOU DID IT!

We knew you could!

Share your success story with friends and family!

#FixedMyToilet
#Fluidmaster

Still not working exactly right? See the next page for Troubleshooting.
TROUBLESHOOTING

IF THE FILL VALVE:
• DOES NOT TURN ON
• WON’T TURN OFF
• WON’T REFILL TANK

REMOVE CAP AND CHECK FOR DEBRIS

A: Turn off water supply.
B: Flush toilet.
C: With right hand push float up, grip and hold shaft under float.
D: With left hand twist cap and lever arm counterclockwise to unlock cap. Let cap hang on float cup.
E: Hold empty cup upside down over uncapped valve to prevent splashing.
F: Turn water supply on and off a few times.
G: Turn water supply off.
H: Replace valve cap.
   • Place cap assembly on top of gray valve body by aligning cap arm and adjustment rod next to refill tube.
   • Press down on top cap while rotating top & arm clockwise to locked position.

See Our Troubleshooting HOW-TO VIDEO
http://bit.ly/2yAdZn7
**IF THE FLOAT DOES NOT DROP WHEN FLUSHED**

**REPLACE FILL VALVE SEAL**

A: Remove cap (see page 18).

B: Replace seal with a genuine Fluidmaster 242 Seal.

C: Replace valve cap.
   - Place cap assembly on top of gray valve body by aligning cap arm and adjustment rod next to refill tube.
   - Press down on top cap while rotating top & arm clockwise to locked position.

**IF THE FILL VALVE TURNS ON AND OFF BY ITSELF**

**CLEAN FLAPPER AND DRAIN SEAT**

A: The tank is losing water, clean the flapper and drain seat for a better seal.

B: Replace flapper.

C: If leak continues after replacing flapper, replace flush valve (507AK, or 540AKR) or repair flush valve seat (555C).

**IF WATER SUPPLY CONNECTOR IS LEAKING**

A: Replace water supply line.
TROUBLESHOOTING

WATER LEVEL IN BOWL IS TOO LOW

A:  WATER FROM REFILL TUBE MUST FLOW THROUGH OVERFLOW PIPE
Make sure the refill tube is supplying water down overflow pipe.

B:  WATER LEVEL IN TANK MAY BE TOO LOW
1/2” below top of overflow pipe is recommended (see page 12).

C:  Roller clamp may need to be adjusted
(see page 14).

D:  FLAPPER MAY BE CLOSING TOO SOON
Give flapper chain approximately 1/2” of slack.
For installation assistance, contact our technical services department. Email, chat or call our toll-free number.

www.fluidmaster.com/support
1-800-631-2011

Hours Available:
Monday – Friday
5:30 AM - 5:00 PM PST
**WARNING**

DO NOT USE IN-TANK DROP-IN TOILET BOWL CLEANERS CONTAINING BLEACH OR CHLORINE. Use of such products will: (1) RESULT IN DAMAGE to tank components and MAY CAUSE FLOODING and PROPERTY DAMAGE and (2) VOID FLUIDMASTER WARRANTY.

Fluidmaster Flush 'n Sparkle Toilet Bowl Cleaning System is recommended for those choosing to use in-tank bowl cleaners and WILL NOT VOID the FLUIDMASTER WARRANTY because it will not damage the components. DO NOT overtighten nuts or tank/bowl may crack. Always use quality Fluidmaster parts when installing or repairing. Fluidmaster will not be responsible or liable for use of non-Fluidmaster parts during installation or repair.

**LIMITED SEVEN-YEAR EXPRESS WARRANTY**

Subject to the “Exclusions” set forth below, Fluidmaster Inc. promises to the consumer to repair, or at the option of Fluidmaster Inc. to replace any part of this plumbing product which proves to be defective in workmanship or materials under normal use for seven years from the date of purchase. All costs of removal, transportation and reinstallation to obtain warranty service shall be paid by the consumer. During this “Limited Seven Year Express Warranty,” Fluidmaster Inc. will provide, subject to the “Exclusions” section set forth below, all replacement parts free of charge, necessary to correct such defects. This “Limited Seven Year Warranty” is null and void if this plumbing product has not been installed and maintained in accordance with all written instructions accompanying the product, and if non-Fluidmaster Inc. parts are used in installation.

**EXCLUSIONS:** FLUIDMASTER INC. SHALL NOT BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES, INCLUDING COSTS OF INSTALLATION, WATER DAMAGE, PERSONAL INJURY OR FOR ANY DAMAGES RESULTING FROM ABUSE OR MISUSE OF THE PRODUCT, FROM OVERTIGHTENING OR FROM FAILURE TO INSTALL OR MAINTAIN THIS PLUMBING PRODUCT IN ACCORDANCE WITH THE WRITTEN INSTRUCTIONS, INCLUDING USE OF NON-FLUIDMASTER PARTS. DO NOT USE IN-TANK DROP-IN TOILET BOWL CLEANERS CONTAINING BLEACH OR CHLORINE. USE OF SUCH PRODUCTS WILL RESULT IN DAMAGE TO TANK COMPONENTS AND MAY CAUSE FLOODING AND PROPERTY DAMAGE. USE OF SUCH PRODUCTS WILL VOID THIS WARRANTY.