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A) Refill Clip

B) Refill Tube

D) Locknut

**ROUBLESHOOTING** 

C) Shank Washer

E) Threaded Shank

Fill Valve Assembly Parts

# **FLUIDMASTER® FILL VALVE & FLAPPER INSTALLATION INSTRUCTIONS**

#### WARNING DO NOT USE IN-TANK DROP-IN TOILET BOWL CLEANERS CONTAINING BLEACH OR



Place Shank

washer onto

threaded

shank of fill

valve. Flat

side up.

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Shank Washer -

Threaded Shank

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 overlighten 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 durina installation or repair.

Preparing the Fill Valve for Installation

#### LIMITED FIVE-YEAR EXPRESS WARRANTY

LIMITED FIVE-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 five 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 Five Year Express
Warranty," Fluidmaster Inc. will provide, subject to the "Exclusions" section set fort below, all replacement parts free of charge, necessary to correct
such defects. This "Limited Five 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, PRESONAL INJURY OR FOR ANY DAMAGES PRESULTING FROM ABUSE OR MISUSE OF THE PRODUCT, FROM OVERTIGHTENTINON, GO ROM FALLIDOR MAGES TO LUBINES OF OT HE PRODUCT, FROM OVERTIGHTENTING PROM ABUSE OR MISUSE OF THE PRODUCT, FROM OVERTIGHTENTING OR ROM STER
TO INSTALL OR MAINTAIN THIS PLUMBING PRODUCT IN ACCORDANCE WITH THE WRITTEN INSTRUCTIONS, INCLUDING USE OF NON-FLUIDMASTER
TO TANK COMPONENTS AND MAY CAUSE FLOODING AND PROPERTY DAMAGE. USE OF SUCH PRODUCTS WILL VOID THIS WARRANTY.



Position fill valve in tank, but do not fully install yet. Top of fill valve MUST be set 3" above overflow pipe. This will automatically place CRITICAL LEVEL MARK / C.L. Mark, 1" above the top of overflow pipe. Remove fill valve from tank to adjust height

Adjust height of fill valve by holding lower shank with right hand and top of valve with left hand. Twist the lower shank counter clockwise to increase valve height and clockwise to decrease valve height. You should hear several "clicks". Place valve in tank and check height again. THE CRITICAL LEVEL MARK, identified by C.L. on valve, MUST be positioned 1" above top of overflow pipe. This is a requirement of the Universal Plumbing Code.

**Do not move lock ring.** It holds the valve body and shank together under pressure. Do not interchange body with old shank as leaking can occur.



(1) Fill Valve

(1) Shank Washer

(1) Flapper

(1) Locknut

(1) Refill Tube

(1) Refill Clip

NSTALLATION

PARTS

IN THIS KIT:

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# EPARATION œ

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# Installing New Flapper

B

Put flapper on seat and push down on flapper clips at the horizontal posts of overflow pipe.

Attach chain clip to tank lever directly above flapper. Leave 1/2" of slack in chain



5	Attach Water Supply Connector
	Inspect water supply connector. Replace

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it if it is worn or over 5 years old to prevent flooding and property damage

A. Attach water supply coupling nut to fill valve. Turn coupling nut clockwise by hand until tight.

**WARNING:** Do not over tighten the nut as it could damage fill valve or coupling nut, resulting in flooding and property damage. Fluidmaster Click Seal<sup>®</sup> connector is recommended: A perfect seal every time without over tightening.

**B.** Turn on water supply and check for leaks. If you find leaking at bottom of tank, turn nut just enough to stop leaking. Then flush toilet to check.



#### Adjusting Tank Water Level 6

With water turned on, set float cup to desired level, by turning water level adjustment screw. When adjusting float cup, flush tank first. Then make adjustment while tank is filling.

To adjust tank water, turn adjustment screw clockwise to raise water level or counter clockwise to lower water level. Once adjusted, flush toilet and check new level. Repeat if necessary.

HINT: When you twist adjustment screw 8 times - float moves 1/2".



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

- Remove top cap and check for debris. If you find debris, or flow is weak: Inspect lower section of fill valve for partial blockage. Partial blockage may be at shut off valve or in water supply line (See "REMOVING THE VALVE CAP ASSEMBLY & FLUSHING OUT DEBRIS")
- If fill valve has been in use for some time and/or float cup does not drop when flushing tank, replace seal with a genuine Fluidmaster 242 seal (See "IF REPLACING SEAL").

#### IF FILL VALVE TURNS ON AND OFF BY ITSELF

 This indicates the tank is losing water. The fill valve is refilling lost water. Clean flapper and drain seat. If leak continues change flush valve. Install Fluidmaster 507AKR, 540AKR or 555C kit.

#### IF WATER LEVEL IN BOWL IS TOO LOW

- Make sure the refill tube is supplying water down overflow pipe.
- Water level in tank may be too low. Raise water level to 1/2" below top of overflow pipe (See "ADJUSTING TANK WATER LEVEL"). You may have to lengthen the fill valve in order to increase the water level in tank (See "PREPARING THE FILL VALVE FOR INSTALLATION").
- Flapper may be closing too soon. Give flapper chain approximately 1/2" of slack.

#### Removing Valve Cap Assembly, Flushing Out Debris, Replacing Seal, & Replacing Valve Cap Assembly **Removing Valve Cap Assembly** Flushing Out Debris If Replacing **Replacing Valve Cap** Turn off water supply Hold cup upside down over Seal **A.** Place cap assembly on top of gray valve body by aligning cap arm and adjustment & flush out tank. Push uncapped valve to prevent float up with right hand splashing. Turn water supply rod next to refill tube. (see picture). Grip and on and off a few times.





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## 🔁 Fluidmaster.

30800 Rancho Viejo Road, San Juan Capistrano, CA 92675 www.Fluidmaster.com • 800-631-2011 Contact Fluidmaster for troubleshooting help or visit www.fluidmaster.com M-F 5:30 am - 5:00 pm PST.



#### Installing New Fill Valve

Place fill valve in tank. Make sure lid will sit on top of tank without touching valve. Align fill valve nipple to face center of tank. Press down on shank from inside tank while tightening locknut.

> Hand-tighten only. DO NOT OVER TIGHTEN. Over tightening may crack the fill valve or tank causing flooding. Make sure the float cup does not touch the tank walls or tank lever and flush valve.

> Attach one end of refill tube to refill clip. Place clip on right side of overflow pipe. Attach other end of tube to nipple on fill valve with a slight arch (See drawing to the right). Cut tube as necessary.

> WARNING: Do not shove refill tube down overflow pipe. This may cause significant water waste.

Correct set up of refill tube and refill clip to overflow pipe



## Code Compliance

Once fill valve is installed, ensure overflow pipe and water level of tank are correctly set.

1. THE TOP OF OVERFLOW PIPE (A) must be minimum of 1" below TANK LEVER HOLE (B).

2. WATER LEVEL (C) is set below top of Overflow Pipe (Fluidmaster recommends 1/2").

3. THE CRITICAL LEVEL MARK / C.L. Mark (D) identified by C.L. on fill valve must be positioned 1' above top of overflow pipe. This is a requirement of the Universal Plumbing Code.

Code Compliance helps protect your home & drinking water supply.



**B.** Press down on top cap while rotating top & arm clockwise to locked position.





If Replacing Seal: Use only a genuine Fluidmaster 242 seal.