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 compo 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

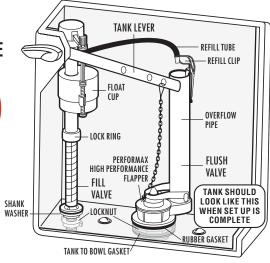
because it will not damage the components. **DO NOT** overlighten nuts or tank/bowl may crack. Always use quality Fluidmaster parts when installing or repairing. Fluidmaster will not be responsible or liable for use of non-Fluidmaster parts

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 sevice shall be paid by the comment. During this "Limited Five 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 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.

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EXCLUSIONS: FLUIDMASTER INC. SHALL NOT BE LIABLE FOR INCIDENTAL OR CONSEQUENTAL 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-TAINK DROP-IN TOILET BOWL CLEAMERS 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.



PARTS IN THIS KIT:

- (1) Fill Valve
- (1) Shank Washer
- (1) Locknut
- (1) Refill Tube
- (1) Refill Clip
- (1) Flush Valve
- (1) PerforMAX™
- High Performance Flapper
- 1) Rubber Gasket
- (1) Large Plastic Locknut (1) Tank to Bowl Gasket
- (2) Brass Bolts
- (4) Stainless Steel Washers
- (4) Stainless Steel Hex Nuts (two thick & two thin)
- (6) Rubber Washers (1) Tank Lever
- (1) Tank Lever Locknut

G

A

Sponge

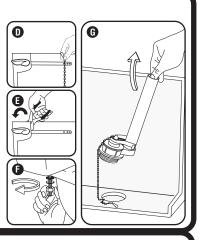
Remove Old Parts

Wire Brush

Remove tank lid. Use pencil to mark water level of tank. Then follow steps A-G.

A. Turn off water supply (Clockwise). Flush toilet and remove excess water from tank with sponge

- **B.** Remove water supply coupling nut. Remove locknut from under tank.
- C. Remove fill valve from tank.
- **D.** Unhook flapper chain from tank lever.
- **E.** Remove tank lever nut (this is a reverse thread nut). Pull lever from tank.
- F. Unbolt tank from toilet bowl. Remove tank and lay on its side on a safe and secure surface. Remove washers, nuts and bolts. **Note:** If you have a three bolt tank, save bolt, washer and nut in best condition for future use. Clean bolt & nut with wire brush and lubricant spray.
- **G.** Remove tank to bowl gasket from under tank. Loosen and remove flush valve lock nut and remove flush valve from tank.



Preparing the Flush 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 gasket and flush valve lock nut first. Insert flush valve into tank hole. Mark the flush valve " below bottom of tank lever hole. Remove flush valve and cut overflow pipe at specified

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

Code Compliance helps protect your home & drinking water supply.



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DO NOT USE

Installing Flush Valve

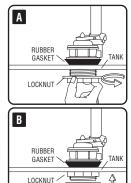
A. Insert flush valve into tank hole. Position overflow pipe toward back of tank (**Do** not cover bolt holes of tank).

B. Holding flush valve in place, thread large plastic locknut onto threads of flush valve. Hand tighten locknut and then use large adjustable pliers to go ½ turn beyond hand tight. Do not

C. Place tank to bowl gasket on bottom of flush valve locknut. Gasket should cover locknut.

*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 not included).



ANK TO BOWL

Installing Toilet Bolts

1. Place one rubber washer on each tank bolt.

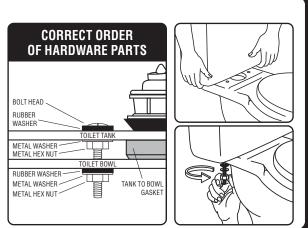
EPARATION

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- 2. Place tank bolts through bottom holes of tank.
- 3. For reinforced connection: Under tank, place metal washers on thin hex nuts and hand tighten to toilet tank. Caution: The thin metal hex nut should not touch the toilet bowl porcelain. If touching, stop and remove nuts and
- 4. Set tank onto bowl. Place rubber washers, metal washers & hex nuts on each bolt under toilet bowl. Using tool, tighten hex nuts evenly until tank is snug and does not rock.

For Three Bolt Toilets

The kit contains two extra rubber washers for toilets that have three bolts. If you need a third bolt and nut, reuse one of your existing bolt sets along with the new rubber washers



Preparing the Fill Valve for Installation

😝 Fluidmaster. 30800 Rancho Vieio 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.

Fill Valve Assembly Parts

- A) Refill Clip B) Refill Tube
- C) Shank Washer
- D) Locknut
- E) Threaded Shank

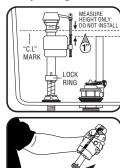


Place Shank

washer onto

3 Shank Washer Threaded

Preparing the Fill Valve for Installation (continued)



mark

Position fill valve in tank, but do not fully install vet. 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.

G

OVERFLOW PIPF

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.

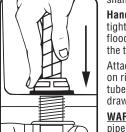
Installing New Fill Valve

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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.

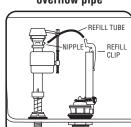


Hand-tighten only. DO NOT OVER TIGHTEN. Over tightening may crack the fill valve or tank causing flooding. Make sure the float cup does not touch the tank walls or tank lever and flush valve.

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



If the removed tank lever is bent (see picture) proceed to next step. If the lever is not bent then proceed to step **B**.

Installing Lever & Flapper Chain

Before installing new tank lever, please remove tank lever lock nut. A. The new lever will need to be bent like the lever that was just

removed. To bend lever, start bend 2 inches after 90 degree elbow Do not bend arm quickly or back and forth repeatedly.

B. Measure length of existing lever arm. If necessary, trim new arm at the cut line that best matches the length of the old arm (hacksaw recommended for best results). Push lever through tank lever hole. Slide tank lever locknut onto lever arm with flat side of nut facing

C. Tighten locknut in the direction shown (clockwise). Do Not Over Tighten. Lock nut is a reverse thread.

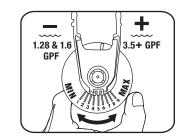
Attach the clip of the chain to the tank lever directly above the flapper. Leave ½ inch of slack in the chain.



Flapper Turn the rubber portion left or right to select the best flush for your toilet. The

Adjusting the PerforMAX[™] High Performance

higher the number set in front of the chain connection – the longer the flapper will stay open. Turn clockwise for greater flush volume. Turn counterclockwise for lower flush volume.



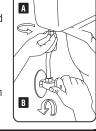
Attach Water Supply Connector

Inspect water supply connector. Replace it if it is worn or over 5 years old to prevent flooding and property

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® connector is recommended: A perfect seal every time without over tiahtenina.

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.



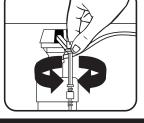
Adjusting Tank Water Level

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

- move 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, OR IS RUNNING WHEN NO FLUSH HAS TAKEN PLACE
- 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 Please ensure all steps were followed in "INSTALLING LEVER & FLAPPER CHAIN" section. Flapper needs to be clipped in to fall evenly on flush valve seat.
- Flush valve locknut may not be tight enough. Check locknut and use tools to ensure locknut is tightened 1/2 turn past hand tight.

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").

Bolts are likely not tight enough or a step was missed in "INSTALLING TOILET BOLTS" section. Please ensure all steps were followed in "INSTALLING TOILET BOLTS"

Flapper may be closing too soon. Give flapper chain approximately 1/2" of slack (See "INSTALLING NEW PERFORMAX™ HIGH PERFORMANCE FLAPPER"). LEAKING AT BOLTS AND/OR ON BASE OF TOILET

section. Tighten bolts further until tank does not rock and leak stops. LEAK OCCURS WHEN TOILET IS FLUSHED

- This usually means that tank to bowl gasket is not centered and seated properly. Please ensure all steps were followed in "INSTALLING FLUSH VALVE" section. Tank to bowl gasket needs to fully cover locknut.
- 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 not included).

Removing Valve Cap Assembly, Flushing Out Debris, Replacing Seal, & Replacing Valve Cap Assembly

Removing Valve Cap Assembly

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Turn off water supply & flush out tank. Push float up with right hand (see picture). Grip and hold shaft under float with right hand. With left hand, twist cap and lever counter clockwise 1/8th of a turn to unlock the top cap. Pressing down on top may be helpful with older valves. Let cap assembly hang on float cup.





Flushing Out Debris

Hold cup upside down over uncapped valve to prevent splashing. Turn water supply on and off a few times. Turn water supply off when putting cap back on valve.



Replacing Valve Cap

If Replacing Seal

Use only a genuine

Fluidmaster 242 seal.



