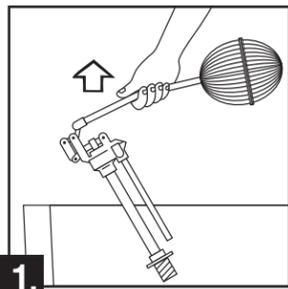


FLUIDMASTER® 400A FILL VALVE INSTALLATION INSTRUCTIONS

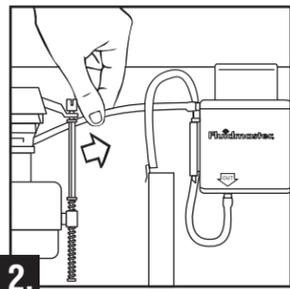
NOTE: SAVE INSTRUCTION SHEET FOR FUTURE REFERENCE.



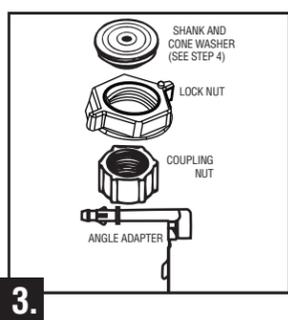
DO NOT USE:



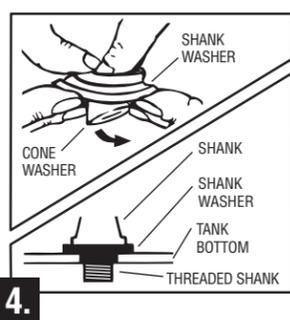
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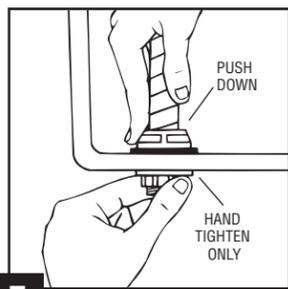
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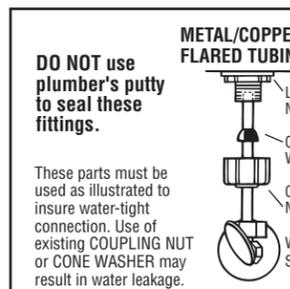
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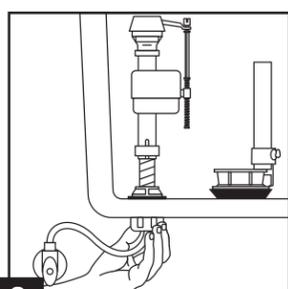
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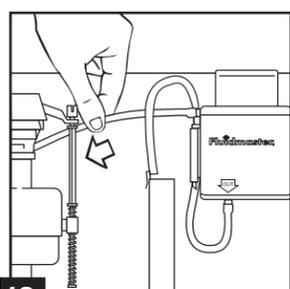
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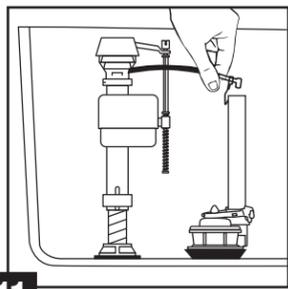
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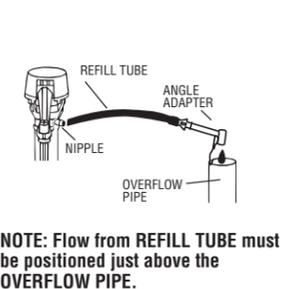
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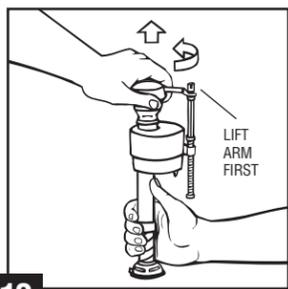
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11.



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13.



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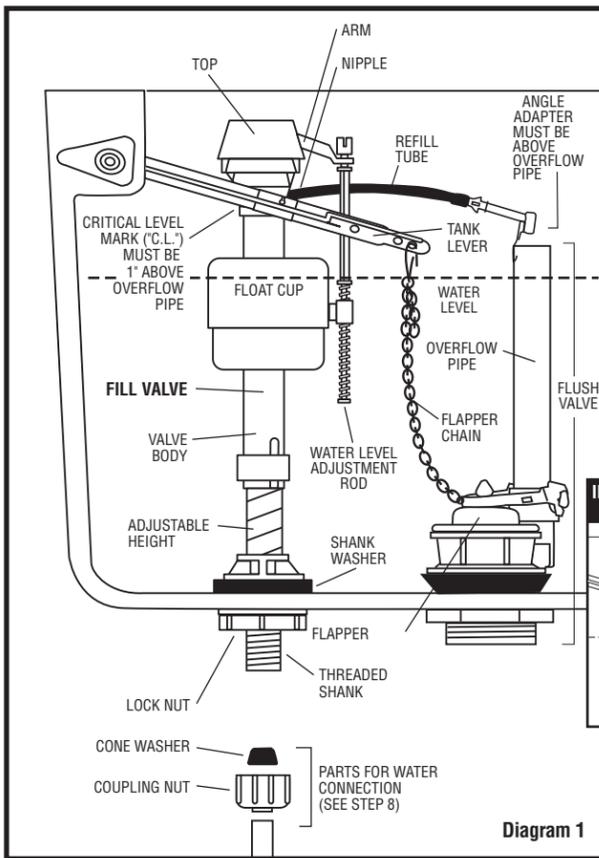


Diagram 1

INSTALLATION WITH FLUSH 'N' SPARKLE TOILET BOWL CLEANING SYSTEM

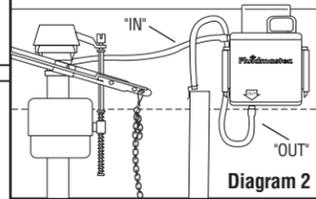


Diagram 2



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.** DO NOT overtighten nuts or tank/bowl may crack.

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 tank components.

Because drop-in cleaners used in the tank can result in damaged tank parts (see WARNING above), Fluidmaster recommends the use of Flush 'n' Sparkle™ Toilet Bowl Cleaning System (Models 8100, 8200 or 8300). It cleans the bowl without harming tank parts by isolating the cleaner from the tank water, releasing it only to the bowl where it is needed. Cartridges supply more than 1,000 flushes and are a snap to replace.



1. Shut off water supply to tank. Flush tank and sponge out remaining water. Remove old fill valve assembly, tank ball, and wire guide unit (or flapper), using pliers if necessary.

2. If you have a Fluidmaster bowl cleaning system, carefully disconnect the tube from the FILL VALVE. Do not disconnect the tube from the dispenser (if you don't have a cleaning system, continue to Step 3).

3. Disassemble small parts – LOCK NUT, SHANK WASHER and ANGLE ADAPTER for VALVE installation (required); CONE WASHER and COUPLING NUT for water supply connection (optional—see Step 8).

4. Carefully remove CONE WASHER from center of SHANK WASHER. Place SHANK WASHER on THREADED SHANK of new VALVE. Place flat surface against VALVE.

5. When installed, the **CRITICAL LEVEL MARK** on the FILL VALVE (identified by a C.L. mark on the Fluidmaster FILL VALVE) should be at least 1" above the top of the OVERFLOW PIPE. This is a plumbing code.

6. To adjust the height of the FILL VALVE, twist the THREADED SHANK in or out of VALVE body. The height of the VALVE adjusts from 9 to 14 inches. On some models, a clicking noise will be heard when adjusting the height. This is normal.

7. Position VALVE inside tank. Push down on the VALVE SHANK (not the TOP) while tightening LOCK NUT. Hand tighten only. DO NOT OVERTIGHTEN or tank may crack. Make sure FLOAT CUP does not touch toilet tank walls, trip mechanism or FLUSH VALVE.

8. Before continuing, determine the type of water supply connection you have from the chart on the left and use the appropriate assembly parts required to properly reconnect the water supply. **DO NOT use plumber's putty to seal these fittings.**

9. With correct WASHERS in place (see Step 8), tighten COUPLING NUT. Hand tighten only. DO NOT OVERTIGHTEN. **CAUTION: DO NOT USE CONE WASHER WITH PLASTIC SUPPLY LINE.**

10. If you have a Fluidmaster bowl cleaning system, re-attach tube ("IN") to FILL VALVE NIPPLE (see Diagram 2). Be sure toilet tank flushing components move freely (if you don't have a cleaning system, continue to Step 11).

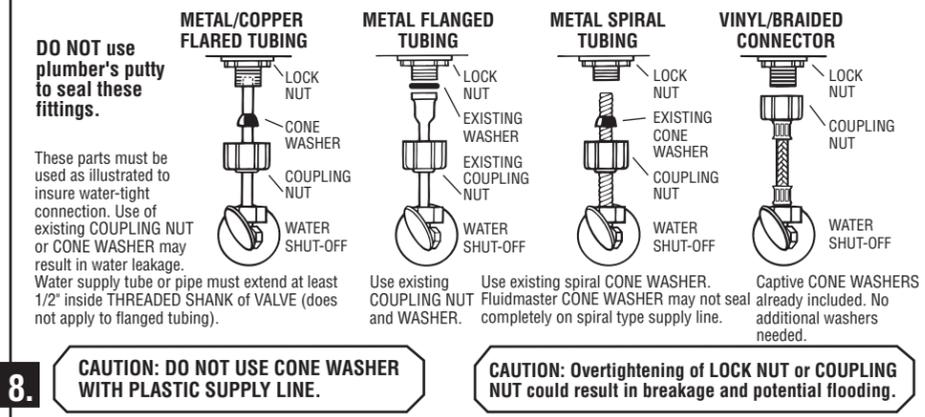
11. Remove and discard overflow pipe cap if present. Attach one end of black REFILL TUBE to ANGLE ADAPTER and the other end to NIPPLE located near top of VALVE. Attach ANGLE ADAPTER to OVERFLOW PIPE. Trim REFILL TUBE as necessary to prevent kinking. **NOTE: Flow from REFILL TUBE must be positioned just above the OVERFLOW PIPE. Do not insert REFILL TUBE down into OVERFLOW PIPE below water level. This will siphon water down the OVERFLOW PIPE, which causes the VALVE to turn on and off as it tries to keep the tank full. If the ANGLE ADAPTER cannot be used, you may need the Model 599 Refill Clamp (not included).**

12. **IMPORTANT: Always clear sand and rust from system.** Make sure water supply is shut off. Remove VALVE TOP by lifting arm and rotating TOP and ARM 1/8 turn counterclockwise, pressing down slightly on cap.

13. While holding a container over the uncapped VALVE to prevent splashing, turn water supply on and off a few times. Leave water supply off.

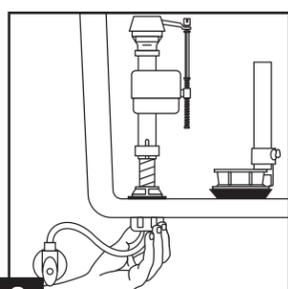
14. Replace TOP by engaging lugs and rotating 1/8 turn clockwise. **MAKE CERTAIN TOP IS TURNED TO THE LOCKED POSITION.** VALVE may not turn on if TOP is not fully to the locked position.

15. Turn on water supply. Submerge the FLOAT CUP under the water for 30 seconds. Adjust the water to desired level by turning WATER LEVEL ADJUSTMENT ROD and moving FLOAT CUP up or down. Water should end up 1/2" to 1" below top of OVERFLOW PIPE.

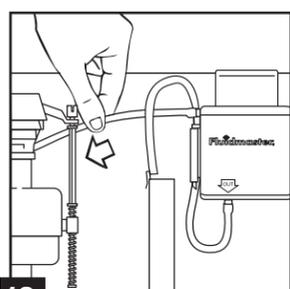


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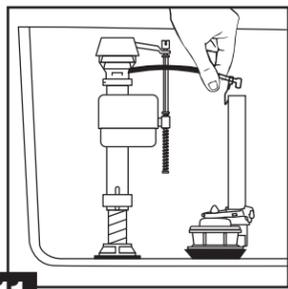
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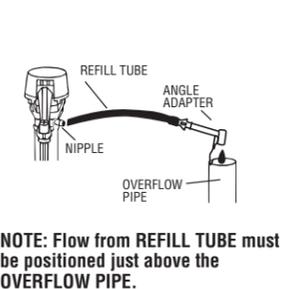
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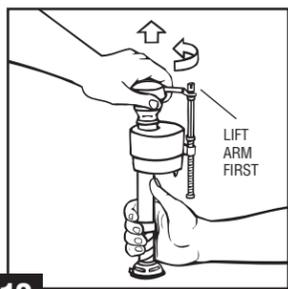
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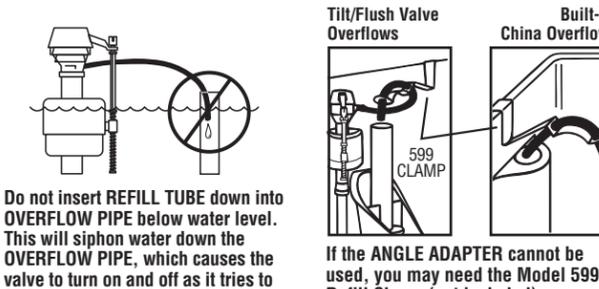
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TROUBLESHOOTING

IF FILL VALVE WON'T TURN OFF.

- There may be debris at seal – repeat Steps 12-14.
- The seal inside the VALVE TOP may be damaged – replace with genuine Fluidmaster 242 seal.

IF FILL VALVE TURNS OFF AND ON DURING PERIODS OF NON-USE.

- There may be a leak at the FLAPPER.
- The FLAPPER is misaligned.
- The seat is corroded or damaged – replace with Flusher Fixer Kit, Model 555C.
- The end of the REFILL TUBE is inserted into OVERFLOW PIPE below water level in tank (See Step 11).

Go to our website at www.fluidmaster.com for more solutions to toilet problems.

GUARANTEE: This Fluidmaster product is guaranteed to be free from defective materials and workmanship for a period of one year. Units returned to Fluidmaster, U.S.A., will be replaced without charge.

Always use quality Fluidmaster repair parts when maintaining your Fluidmaster products. Fluidmaster shall not be responsible or liable for any damages caused by products used in Fluidmaster valves that were not manufactured by Fluidmaster, Inc.

Fluidmaster Inc.

30800 Rancho Viejo Road
San Juan Capistrano, CA 92675 U.S.A.
www.fluidmaster.com