FLUIDMASTER® 400CARS5 FILL VALVE & FLUSH VALVE REPAIR KIT INSTALLATION INSTRUCTIONS

INSTALLATION

1 Remove Old Fill Valve

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

A. Turn off water supply (Clockwise).
B. Disconnect water supply connector. Remove locknut from under tank. 
C. Replace fill valve from tank. 
D. See “Step 2” for directions on your specific specialty flush valve seal replacement.

2 Remove & Replace Flush Valve Seal

See below for specific flush valve seal replacement instructions. For more detailed instructions and installation videos, please visit our website at http://opn.to/a/400CARS.

NOTE:
A. Turn clockwise by hand until tight.
B. Do not overtighten nuts or tank/bowl may crack. Always use quality parts when installing or repairing. Fluidmaster will not be responsible or liable for use of non-Fluidmaster parts because it will not damage the components.

3 Preparing the Fill Valve for Installation

Fill Valve Parts

- Refill Tube
- Shank Washer
- Locknut
- Threaded Shank
- Roller Clamp
- Hose Clamps

Fill Valve Positioning

A. Position fill valve in tank – DO NOT FULLY INSTALL.
B. Verify top of fill valve is 3” above overflow pipe.
C. Move valve if necessary. Adjust Fill Valve Height.

IF REPLACING SEAL

D. Do not move lock ring.
E. To increase height – twist lower shank counter clockwise.
F. To decrease height – twist lower shank counter clockwise.
G. Critical Level Mark (C.L. Mark) MUST be positioned 1” above top of overflow pipe – required by Universal Plumbing Code.

4 Installing New Fill Valve

A. Place fill valve in tank.
B. Align fill valve nipple to face the flush valve.
C. Press down on shank from inside while tightening locknut.
D. Hand-tighten only – DO NOT OVERTIGHTEN! Over tightening may damage fill valve or tank causing flooding.
E. Attach one end of refill tube (a) to the flush valve.
F. Attach other end of tube to nipple on fill valve – Cut excess tube as necessary with scissors.
G. Squeeze tube clamps and slide to ends of tube and release.

WARNING: Placing refill tube down overflow pipe will cause significant water waste.

5 Attach Water Supply Connector

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

WARNING: Over tightening the nut could damage the coupling nut resulting in flooding and property damage. Fluidmaster Click Seal® Connector is recommended; a perfect seal every time without overtightening.
B. To check for leaks, turn on water supply.
C. If leakage occurs – turn nut just enough to stop leaking.

NOTE: We recommend replacing the existing water supply connector if it is worn or over 5 years old – this will protect your home from potential flooding and property damage.

6 Adjusting Tank Water Level

HINT:

A. Turn water on.
B. When water level adjustment screw to set float cup to desired level.
C. Turning adjustment screw clockwise lowers water level.
D. Turning adjustment screw counter clockwise raises water level.
E. Flush to check adjust new level.

HINT: Twisting adjustment screw 4 complete turns moves float by 1/2”.

7 Water-Saving Feature: Roller Clamp

HINT:

A. Flush to bowl appears full, wait 20 seconds. Adjust water level as necessary.
B. Remove tank lid and check for debris. If you find debris, or a blockage. Partial obstruction may be at shut off valve or in water line before it reaches the tank.

8 Code Compliance

HINT:

A. The TOP OF OVERFLOW PIPE (A) must be minimum of 1” below TANK LEVEL HOLE (B).
B. WATER LEVEL (C) is set below top of Overflow Pipe (Fluidmaster recommends 1”).
C. 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.

9 Remove Tank Lid

A-D. DO NOT MOVE LOCK RING

TROUBLESHOOTING

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

A. Remove top cap and check for debris. If you find debris, or leak is evident, 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 SEALS”.
B. If fill valve has been in use for some time and/or fill cup does not drop when flushing, replace seal with a genuine Fluidmaster 242 seal (See “IF REPLACING SEALS”).
C. IF FILL VALVE TURNS ON AND OFF BY ITSELF

This indicates the tank is losing water. The fill valve is bleeding, lost water. Clean the seal. Ensure the flush valve is free of debris and installed correctly (See “Step 2”). If leak continues change flush valve.

IF WATER LEVEL IN BOWL IS TOO LOW

A. Make sure the refit tube is supplying water down overflow pipe.
B. Water level in tank may be too low. Raise water level to 1/2” below top of overflow pipe (See “Step 1”). You may need to lengthen the fill valve in order to increase the water level in tank (See “Step 3”).

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

Removing Valve Cap

A. Let off water supply & flush out tank. Push float into right hand (not picture). Grip and hold shaft under float with right hand. With shaft, pull cap and lower cover clockwise 1/8th of a turn to unlock the top cap. Pressing down on top cap may be helpful with older valves. Let cap assembly hang on float cup.

Flushing Out Debris

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

If Replacing Seal

A. If replacing seal, use only a genuine Fluidmaster 242 seal.

Replacing Valve Cap

A. If replacing a new valve cap, position top of valve body by aligning cap arm and adjustment rod next to refill tube.
B. Press down on cap as while rotating top & arm clockwise to locked position.

Please keep a copy of these instructions on the property in which the product was installed.