FLUIDMASTER® 402CARHR
FILL VALVE & FLAPPER INSTALLATION INSTRUCTIONS

In this KIT:
(1) PerforMAX™ Fill Valve
(1) Shank Washer
(1) Locknut
(1) Refill Tube
(1) Refill Clip
(1) Roller Clamp
(2) Hose Clamps
(1) PerfomAX™ High Performance Flapper

Preventing Overflow

Place Shank washer onto threaded shank of fill valve
Flat side up

WARNING:
- Do not overtighten
- If leaks occur, turn off water supply immediately

Tools Needed
- Screwdriver
- Pencil
- Tape measure
- Scissors
- Sponge

Preparation

Before you begin, watch our installation video at http://opn.to/a/PV6p9

Installing New Fill Valve

1. A. Place fill valve in tank.
2. B. Align fill valve nipple to face overflow pipe.
3. C. Press down on shank from inside while tightening locknut.
4. D. Hand-tighten only – DO NOT OVERTIGHTEN!
5. E. Overfilling toilet tank or tank causing flooding
6. F. Attach one end of refill tube to (a) refill clip
7. G. Hose Clamps

Correct set up of refill tube and refill clip to over flow pipe

Preventing Overflow

Remove tank lid. Use pencil to mark water level of

Adjusting Tank Water Level

A. Fill bowl with gallon of water & wait for it to recede and stop
B. Mark water level with pencil and flush toilet. If the water refills above, water level without overflow is correct. If water stops filling below pencil line, water is too low.
C. Adjust water by pulling down and rolling the dial with thumb on roller clamp. “0” means no refill.

Code Compliance

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

1. THE TOP OF OVERFLOW PIPE (A) must be minimum of 1” below TANK LEVEL HOLE (B)." 
2. TANK LEVEL (C) is set below of Overflow Pipe (Fluidmaster recommends 1/2”)
3. THE CRITICAL LEVEL, Mark (C.L. Mark) identified by C.L. on fill valve must be positioned 1” above top of overflow pipe. This is a requirement of the Uniform Plumbing Code.

Code Compliance helps protect your home & saving water supply.

Troubleshooting

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 5007AR, 540AR or SSSS 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. Place water level to 1/2” below top of overflow pipe (See Step “7”). You may have to lengthen the fill valve in order to increase the water level in tank (See Step “3”).
- Flapper may be closing too soon. Hang flapper chain approximately 1/2” of slack (See Step “5”).

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

1. Turn off supply water to toilet
2. Remove valve cap assembly
3. Replace valve cap

Removing Valve Cap Assembly

A. Flip off supply water & flush out tank. Flush flush valve with right hand (see picture). Grip and hold handle 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 cap may be helpful with older valves. Let cap assembly hang on flush cup.

Replacing Valve Cap

A. Connect cap to nut. If you have a 400 with a metal rod (b), place adapter (a) into slot at end of cap. Place cap on valve with rod next to refill tube (b). Push down and twist clockwise until it stops.

IF replacing Seal
- Use a genuine Fluidmaster 242 seat.