**FLUIDMASTER® 402CAHR Fill Valve & Flapper Installation Instructions**

**Installing New Fill Valve**

1. Place fill valve in tank.
2. A. Align fill valve nippe to face overflow pipe.

**Installing New PerformaMax™ High Performance Flapper**

1. A. Put flapper on seat.
2. B. Align flapper clips with horizontal posts of overflow pipe.
3. C. Push down on clips to connect.
4. D. Attach clip chain to tank lever – Leave about 1/2” of slack in chain.
5. E. Turn rubber portion of flapper left or right to adjust performance level.
6. F. Clockwise for greater flush volume.
7. G. Counterclockwise for lower flush volume.

**Preparing the Fill Valve for Installation**

- **A.** Place Shank washer unto threaded shanks of fill valve flat side up.

**Adjusting Tank Water Level**

3. **HINT:** When adjusting float cup, flush tank and fill adjustment while tank is filling.

2. **A.** Turn water on.
3. **B.** Turn water level adjustment screw to set float cup to desired level.
4. **C.** Turning adjustment screw clockwise raises water level.
5. **D.** Turning adjustment screw counter clockwise lowers water level.
6. **E.** Flush toilet to check new level.

**Water-Saving Feature: Roller Clamp**

- **HINT:** Flush toilet – if bowl appears full, but continues to fill, valve is allowing too much water in tank.

- **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 line, water level is too high. If water stops filling below pencil line, water is too low.
- **C.** Adjust water by pushing down and rolling the dial with thumb on roller clamp. “0” means no refill.

**Tools Needed**

- **A.** PerforMAX™ Fill Valve
- **B.** Shank Washer
- **C.** Locknut
- **D.** Refill Tube
- **E.** Refill Clip
- **F.** Roller Clamp
- **G.** Hose Clamps
- **H.** PerformaMax™ High Performance Flapper

**Preparation**

- **A.** Place Shank washer unto threaded shanks of fill valve flat side up.

**Installing New Fill Valve**

- **B.** Press down on shank from inside while tightening locknut.

**3 Parting the Fill Valve for Installation**

- **A.** Position fill valve in tank – DO NOT FULLY INSTALL.

**4. Installation of New Fill Valve**

- **B.** Set top of fill valve 3” above overflow pipe.

**5. Water Height Adjustment – If Necessary:**

- **A.** DO NOT MOVE LOCK RING.
- **B.** Increase height – twist lower shank counter clockwise.
- **C.** Decrease height – twist lower shank clockwise.
- **D.** Critical Level Mark (C.L Mark) MUST be positioned 1” above top of overflow pipe – required by Universal Plumbing Code.

**6. Attaching Water Supply Connector**

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

**7. Adjusting Tank Water Level**

- **A.** Turn water on.
- **B.** Turn water level adjustment screw to set float cup to desired level.
- **C.** Turning adjustment screw clockwise raises water level.
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**8. HINT:** When adjusting float cup, flush tank and fill adjustment while tank is filling.

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**9. HINT:** When adjusting float cup, flush tank and fill adjustment while tank is filling.

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**Cleaning Water Supply Connector**

- **A.** Attaching water supply connector.

**Cleaning Water Supply Connector**

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

**Lubricating Water Supply Connector**

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

**Replacing Flapper Clip**

- **A.** Place clip on right side of overflow pipe.

**Replacing Valve Cap**

- **A.** Place cap on valve with rod next to refill tube.

**Removing Valve Cap**

- **A.** Turn off water supply.

**Flushing Out Debris**

- **A.** Refill cup down to uncapped valve to prevent splashing.

**Replacing Seal**

- **A.** If replacing seal - Use only a genuine Fluidmaster 242 seal.

**Replacing Valve Cap**

- **A.** Place cap on valve with rod next to refill tube.

**Replacing Flapper Clip**

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**Installing New Fill Valve**

- **A.** Place fill valve in tank.

**Installing New PerforaMax™ High Performance Flapper**

- **A.** Put flapper on seat.

**Installing New Fill Valve**

- **B.** A. Place fill valve in tank.
- **B.** B. Align fill valve nippe to face overflow pipe.

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- **A.** Put flapper on seat.
- **B.** Align flapper clips with horizontal posts of overflow pipe.
- **C.** Push down on clips to connect.
- **D.** Attach clip chain to tank lever – Leave about 1/2” of slack in chain.
- **E.** Turn rubber portion of flapper left or right to adjust performance level.
- **F.** Clockwise for greater flush volume.
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