

## REPAIRING FLUSHING MECHANISMS

Fixture control devices are used for flushing, holding water in a lavatory bowl, and draining waste. These devices—such as a water closet's tank flushing mechanism or lavatory/sink popup plug—get much usage and wear. When a fixture control device fails to operate properly or leaks, the malfunction is located and repaired. See figures 20, 21 and 22.

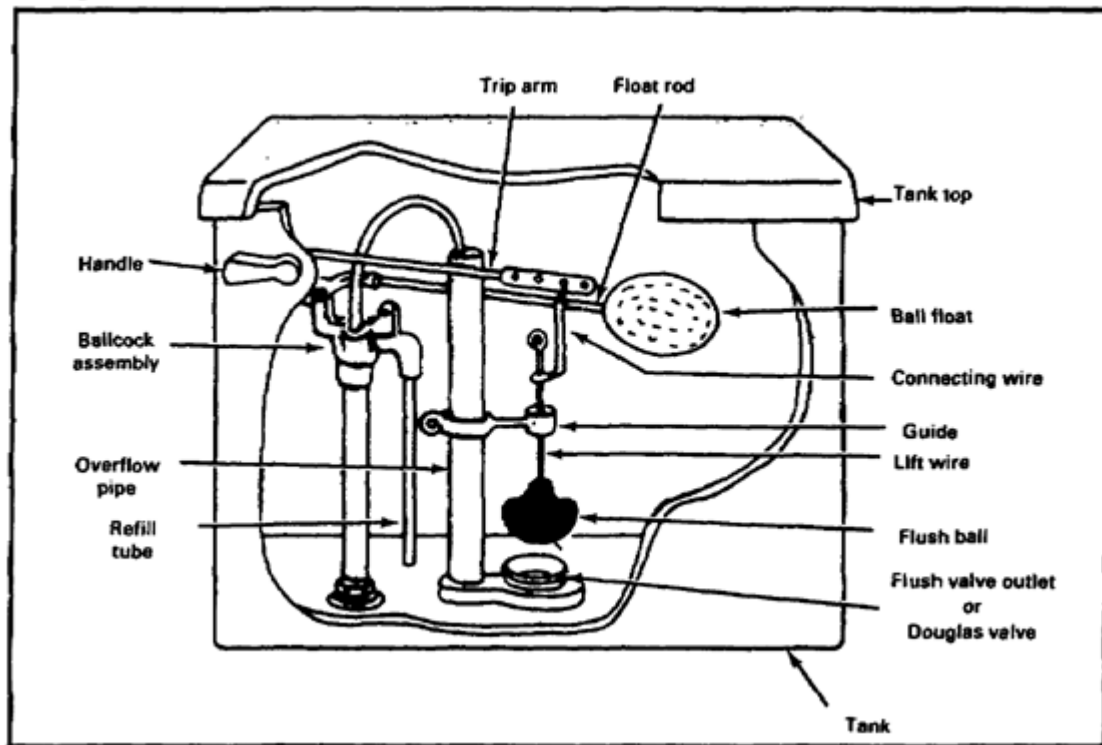


Figure 20. Ballcock-Type Flushing Mechanism

## WATER CLOSET'S BALLCOCK TYPE FLUSHING MECHANISM MALFUNCTIONS AND REPAIRS

## Malfunction

1. Water level running into top of overflow pipe.
2. Running water closet caused by —
  - a. Damaged flush ball.
  - b. Damaged Washer.

## Repairs

- a. Remove tank top.
  - b. Unscrew ball float from rod.
  - c. Shake ball float to find out if any water is in the ball.
  - d. If water is inside the ball, replace the ball float. If no water is in the ball, the ball float is functional.
  - e. Screw ball float back onto the rod.
  - f. Place both hands on the middle of the float rod and carefully bend the ball side of the rod down about  $\frac{1}{2}$  inch.
  - g. Flush water closet to check that water level is below top of overflow pipe.
  - h. Replace tank top.
- a. Remove tank top.
  - b. Turn off water supply at shutoff valve.
  - c. Flush water closet to empty tank.
  - d. Unscrew flush ball from lift wire.
  - e. Check bottom of flush ball for damage or wear.
  - f. If flush ball is damaged or worn, replace it with a new one.
  - g. Clean flush valve outlet with emery cloth or steel wool.
  - h. Operate handle several times to check that the flush ball sits evenly in the flush outlet valve.
  - i. Turn on water supply.
  - j. Flush water closet to check repair.
  - k. Replace tank top.
- a. Turn off water supply shutoff valve.
  - b. Flush water closet to empty water from tank.
  - c. Remove screws or pins.
  - d. Lift plunger out of assembly.
  - e. Check both washers for damage or wear.
  - f. Replace worn or damaged washer.
  - g. Reassemble ballcock assembly.
  - h. Turn on water supply.
  - i. Flush water closet several times to check repair.
  - i. Replace tank top.

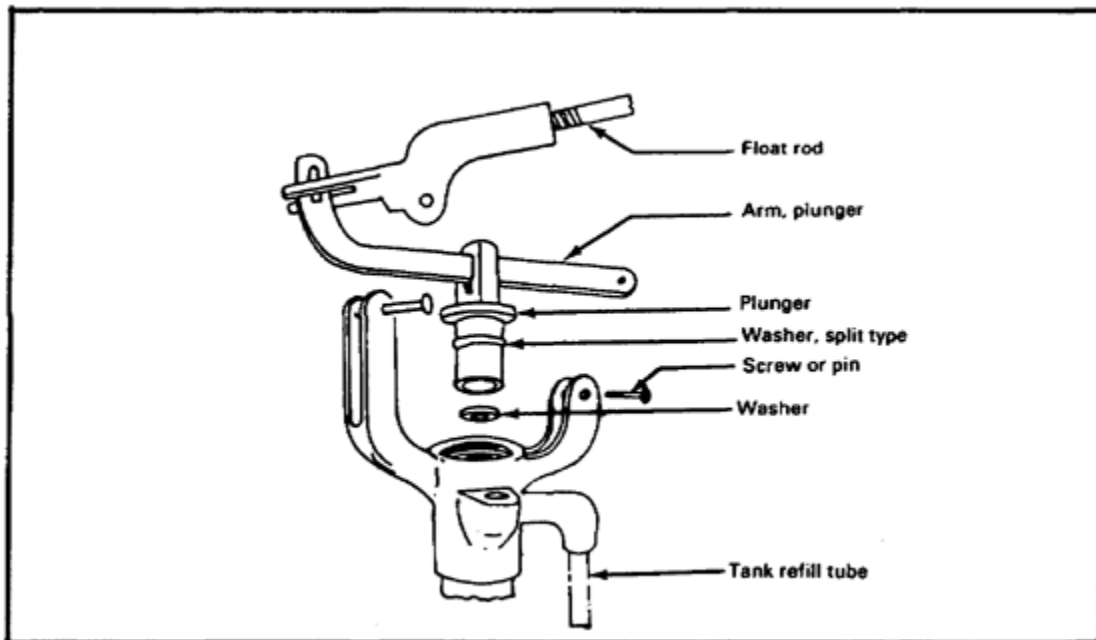


Figure 21. BallCock Parts

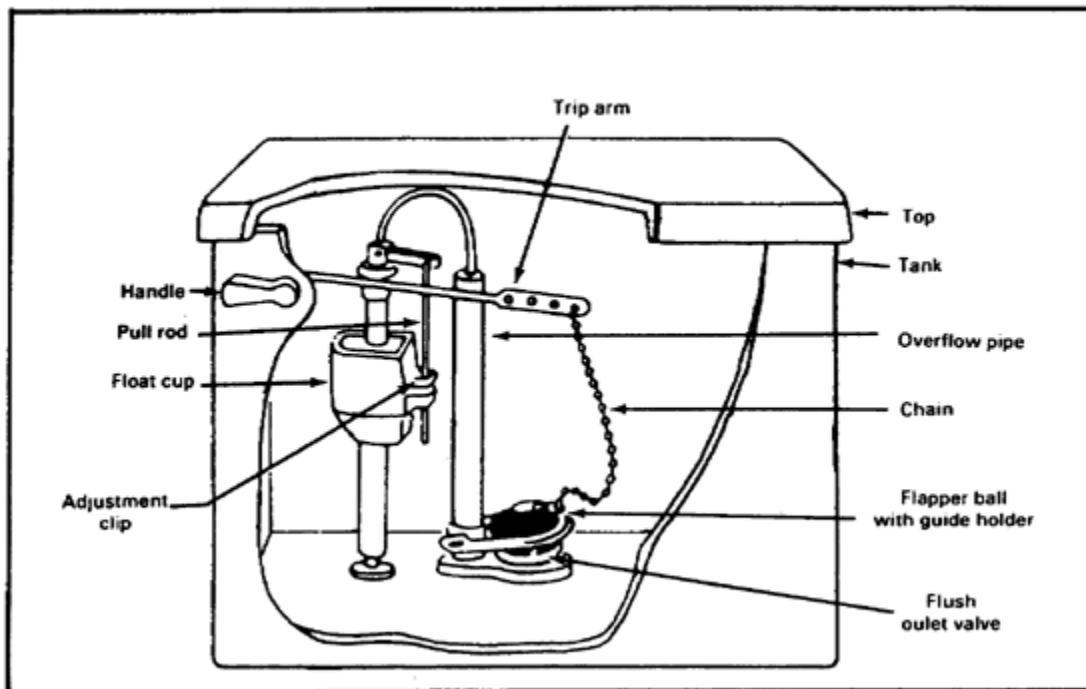


Figure 22. Float-Cup-Type Flushing Mechanism

## FLOAT-CUP-TYPE FLUSHING MECHANISM MALFUNCTIONS AND REPAIRS

<b>Malfunction</b>	<b>Repairs</b>
1. Water level running into top of overflow pipe.	<ol style="list-style-type: none"><li>a. Remove tank top.</li><li>b. Grab the top and bottom of the adjustment clip, squeeze, and move it down on the pull rod to lower the float cup.</li><li>c. Flush tank and check incoming water level. Level should be about one inch below top of overflow pipe.</li><li>d. If level is not correct, repeat steps b and c above. Replace tank top.</li></ol>
2. Running water closet.	<ol style="list-style-type: none"><li>a. Remove tank top.</li><li>b. Turn off water supply at shutoff valve.</li><li>c. Flush water closet to empty tank.</li><li>d. Lift up flapper ball and check for damage or wear.</li><li>e. If flapper ball is damaged or worn, replace it.</li><li>f. Clean outlet valve with emery cloth or steel wool.</li><li>g. Operate handle several times to check that flapper ball sits evenly in the outlet valve.</li><li>h. Turn on water supply.</li><li>i. Flush water closet to check repair.</li><li>j. Replace tank top.</li></ol>