1. Shutoff water supply to tank. Flush tank and spigot out remaining water from valve assembly, tank bowl, and water lines. Use 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 disconnection (if you don’t have a cleaning system, continue to Step 3).

3. Disassemble small parts – LOCK NUT, WASHER and ANGLE ADAPTER for FILL VALVE installation. Inspect WASHER and COUPLING NUT for water supply connection (optional use Step 6).

4. Carefully remove CONE WASHER from center of WASHER. Place Socket WASHER on THREADED SHAFT of new VALVE. Place Flapper WASHER on THREADED SHAFT of new VALVE.

5. Use pliers to remove the THREADED NUT from the FILL VALVE (if identified by a C.L. mark on the Fluidmaster FILL VALVE) should be at least 1/2" above the top of the OVERFLOW PIPE. This is a plumbing code requirement.

6. Be sure the height of the FILL VALVE, inside the THREADED NUT, is or out of VALVE body. The height of the VALVE adjusts from 1/4 to 1/2 inches. 1/2 inches, a click may be heard as the lock ring is pulled upwards. This is normal.

7. Position VALVE inside tank. Push down on the VALVE body (not the THREADED SHAFT) until it is flush with the bottom of the tank. Make sure FLOAT CUP does not touch 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 VALVES 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. Clean drain with a soft cloth. Snap ADAPTER RING away from FLAPPER. Align FLAPPER over mounting ears located on base of OVERFLOW PIPE. Center FLAPPER over drain opening. Snap to mounting ears by pushing down on the right side of mounting ears. FLAPPER should open and close without binding.

11. ADAPTER RING FOR 1” OVERFLOW PIPES WITHOUT MOUNTING EARS. If there are no mounting ears on base of OVERFLOW PIPE, insert ADAPTER RING. 1) Position ADAPTER over top of OVERFLOW PIPE and press down until it expands and stops over the outside of the OVERFLOW PIPE. If the ADAPTER will not slide down the pipe (i.e. the valve line, or valve pipe), remove the SPINDLE WASHER, hand tighten LOCK NUT, and position ADAPTER down until it contacts base of OVERFLOW PIPE. Position spindles parallel to the opposite wall as shown. Do not use overly tight wrench to break seal from seal. Correct assembly. If OVERFLOW PIPE is larger than 1”, Model SSDC can be used.

12. If you have a Fluidmaster bowl level system, attach tube to valve. Do not disconnect the tube from the FILL VALVE. NIPPLE (see Diagram 2). Be sure toilet tank flushing components move freely (or if you don’t have a cleaning system, continue to Step 13).

13. Remove and discard overflow pipe cap if present. Attach end of black REFLUX TUBE to ANGLE ADAPTER and the other end to NIPPLE located near top of new VALVE. Align ANGLE ADAPTER to OVERFLOW RISE. Use REFLUX TUBE as necessary to prevent suction. NOTE: Flow from REFLUX TUBE must be positioned just above the OVERFLOW PIPE. Do not insert REFLUX TUBE down into OVERFLOW PIPE below water level. This will siphon water down the OVERFLOW PIPE, which causes the flush valve to turn on and off as it tries to keep the tank full.

14. Connect FLAPPER CHAIN to hole in TANK LEVEL arm that provides the best lift. CHAIN should have slight slack when FLAPPER is in closed position. Replace kit. Do final lift action for proper flush.

15. IMPORTANT: Always clean sand and rust from system. Make sure water supply is shut off at shut-off VALVE TOP by lifting arm and rotating TOP, and ARM 90° from vertical position. Make ARM 90° from horizontal position.

16. If no tank is visible, replace with Flusher Fixer Kit, Model SSDC. Use as needed to repair lift chain or lift action of FLAPPER. Fluidmaster 242 seal.

17. If the ANGLE ADAPTER cannot be used, you may need to model 599 Refill Clamp (not included).