

# Troubleshooting a Pressure-Assist Toilet

All pressure-assist toilets get their energy from the water supply line. It is important to have sufficient pressure at the supply. The minimum line pressure for the 1.6 gpf (6.0 Lpf) and the 1.28 gpf (4.8 Lpf) systems is 20 psi and 25 psi for 1.0 gpf (3.8 Lpf).

## Components

Flush rod

Supply shank w/inlet screen



Air inducer cap w/duckbill

Actuator w/set screw

Flush cartridge



Fig. 1

### Step 1. Check Flush Cartridge

- Turn off water supply and flush toilet.
- Pour water onto top of cartridge (Fig. 1) and turn on water.
- Watch for air bubbles. Consistent flow of bubbles indicates cartridge needs to be replaced. No bubbles visible, move onto step 4.



Fig. 2

### Step 2. Flush Cartridge Replacement

- Turn off water and flush the toilet.
- Use the handle end of pliers (Fig. 2) to unscrew the cartridge from the vessel.
- Drop in new cartridge and screw in until one female thread (Fig. 3) of vessel is showing.
- Turn on water. Continue to screw in cartridge with 1/4 turn increments until water stops running into bowl and tank pressurizes.



Fig. 3

### Step 3. Actuator Adjustment

- Start by loosening the set screw in the center of the actuator. Adjust the height of the actuator by screwing it up or down. There should be a gap (Fig. 4) (about the thickness of a penny) between the rod and actuator when gently lifting the rod. When accomplished tighten the set screw in the center of the actuator.



Fig. 4



Fig. 5

### Step 4. Check Air Inducer

- Place several drops of water over hole on top of air inducer and flush toilet (Fig. 5). If drop is vacuumed in, move onto step 6. If not, air inducer needs to be cleaned.



Fig. 6

### Step 5. Clean Air Inducer

- Turn off water and flush toilet. Unscrew the cap of the air inducer (the smaller of the two caps), (Fig. 6).
- Pull the duckbill out from the cap and clean it by gently squeezing it (Fig. 7) between your fingers under a flow of water. Inspect the lips of the duckbill. If they are deformed, the duckbill needs to be replaced.
- Reassemble, insert the duckbill into the housing (Fig. 8) body and reinstall the cap finger tight.



Fig. 7

### Step 6. Clean Inlet Screen

- Clean the inlet screen by turning off the water supply, disconnecting the water supply line from the supply shank and removing the screen with a paper clip (Fig. 9).
- Clean screen (Fig. 10) and replace.



Fig. 8

### Other Points to Remember

- Pressure assist-toilets get their energy from the water supply.
- A minimum water pressure of 20 psi is required.
- A blocked bowl or drain will affect the fixture's performance. To check for this, pour 2 to 3 gallons of water into the bowl. If the bowl accumulates water in it, this would indicate that something is blocking the bowl/drain. If you need additional help, please contact the manufacturer of the flushing system, or do a word search on "pressure assist toilets" on the web.



Fig. 9



Fig. 10



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