GE LOGIX WATER SOFTENER INSTALLATION

Discount Water Softeners recommends using a licensed plumber to install your water softener. The following installation instructions are for use with the water softener system you now own. Discount Water Softeners assumes no responsibility for improper installation or injury.

Additional instructions are also in your water softener manufacturers' manual in Section E pages 13-19. Please print these instructions and use them in conjunction with your manual for installing and programming your system.

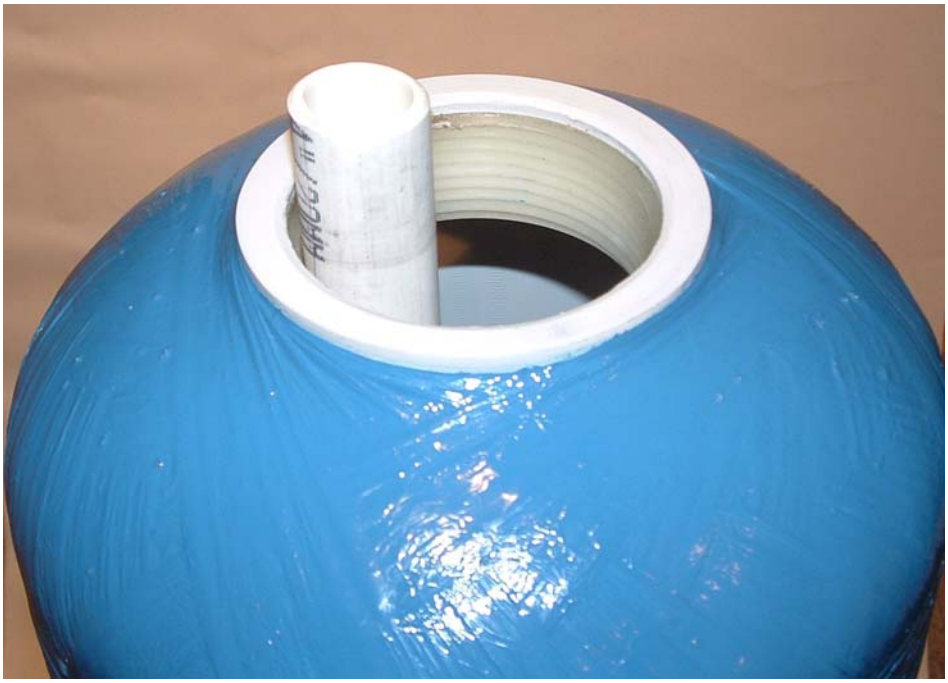
Step 1:
Location of your softener is important. It should be in a protected dry, level and non-freezing area (34-120 degrees F). The 2 tanks should be set close to each other. The square tank is your salt (brine) tank (for softener salt or potassium chloride) and it is the tank that you will have to refill with salt from time to time, so make it the more accessible of the 2 tanks. Do not put salt in this tank until you have put the softener into service and have tested the cycles.

Step 2:
You will need a standard outlet that is not controlled by a switch. You should also have a floor drain located nearby.

Step 3:
The distributor tube or turbulator should be placed in the softener tank with the distributor basket end down. The softener tank (fiberglass construction) is the taller of the two tanks and shown in the following picture. Turn the tube a couple times to make sure that the bottom basket seats properly in the bottom of the tank. Make sure the distributor tube or turbulator is in the tank BEFORE YOU ADD THE RESIN!

Step 4:
Make sure you place the softener tank shown above where you want to connect it to your water line because it will be heavy a difficult to move after the resin is added. Make sure you install your softener in line before your hot water heater to insure that you have full benefit of the softener system.

Step 5:
Be sure to cover the open upper end of the distributor tube or turbulator with tape or cap as shown below to keep any resin from falling into the distributor tube or turbulator tube while pouring the resin into the softener tank. Remove the tape after filling the tank with resin.

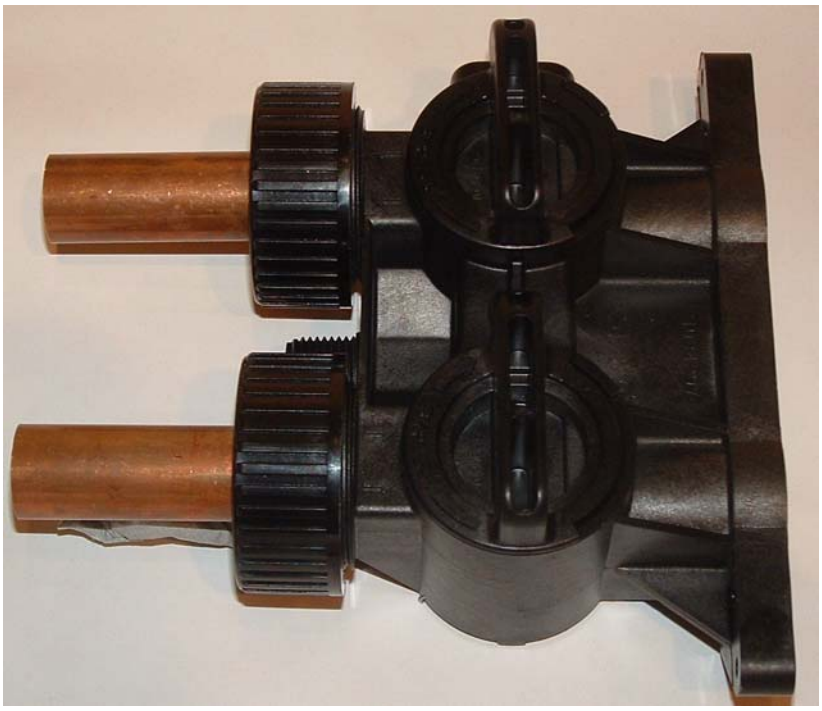


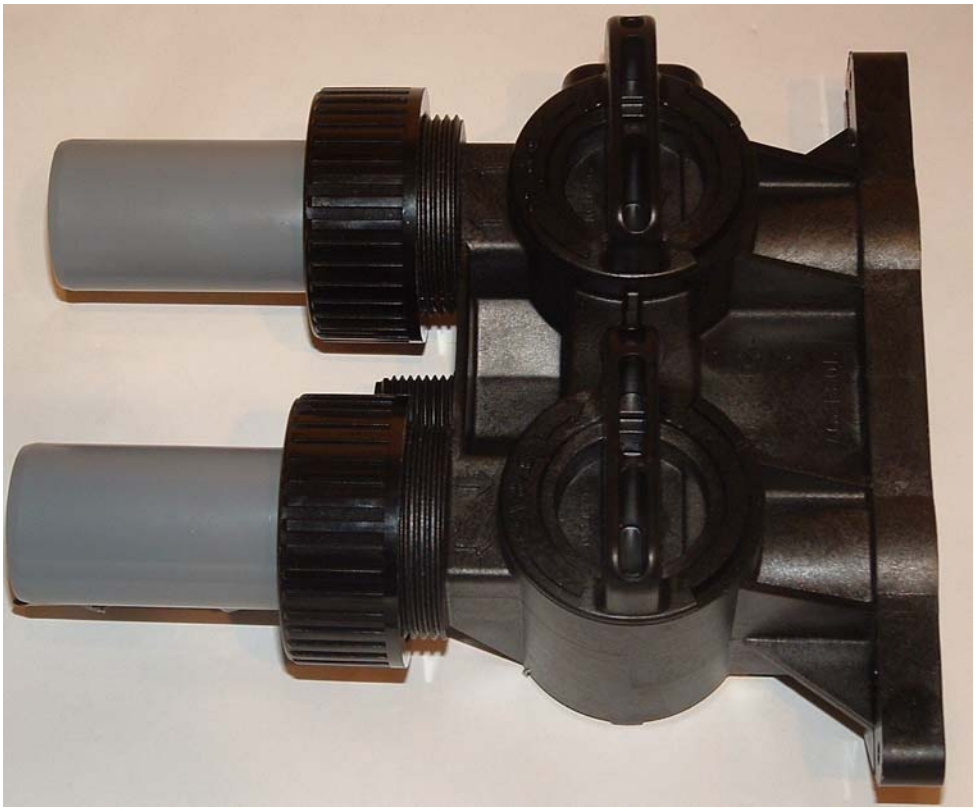
Step 6:
Place the funnel into the softener tank as shown below, and slowly pour the resin into the softener tank. **Caution: If you purchased a water softener that came with a bag containing gravel, you must add the gravel first before the resin.**

Step 7:
Be careful to keep the distributor tube or turbulator centered as best you can, while filling.
Once the filling of the softener tank is completed, carefully remove the tape or cap from the tube. Do not pull upwards on the tube.

Step 8:
The control valve head can now be screwed onto the softener tank. Be sure the large O-ring is in place, and lubricated. As you start to screw the control valve onto the tank, make sure the hole in the center of the control valve fits over the distributor or turbulator tube. The control valve should be hand tightened, snug and tight to eliminate a possible leak, clockwise.

Step 9:
You are now ready to install the bypass valve to the control valve with the four screws provided. Turn off main water valve. Water connections to and from softener should now be connected. For Logix systems you will need to either "sweat" your copper tails to your existing copper pipes or glue the PVC tails to PVC connections you have for your in and out water supply. Plastic connections are glue fittings and proper PVC cleaner and glue should be used. CAUTION: YOU MUST PAY ATTENTION TO THE IN AND OUT ARROWS ON THE VALVE TO BE SURE THE SOFTENER IS PIPED PROPERLY.



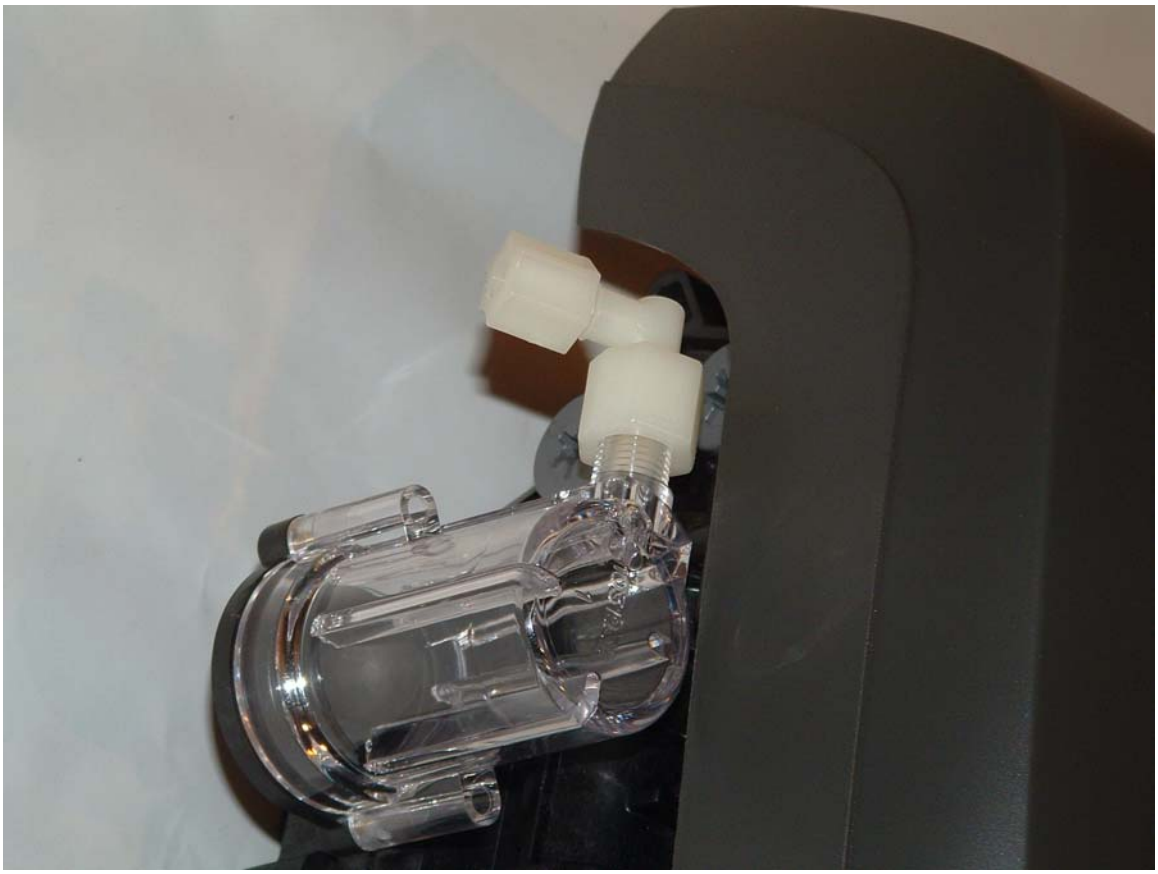


Step 10:
You will need a drain for the backwashing cycles. This should be no longer than 20 feet from the water softener. You will need to purchase this flexible 1/2 i.d. plastic pipe (can be vinyl, polyethylene etc. and same size can be used on the brine tank overflow) and a small clamp to hold the tubing over the fitting. This backwashing

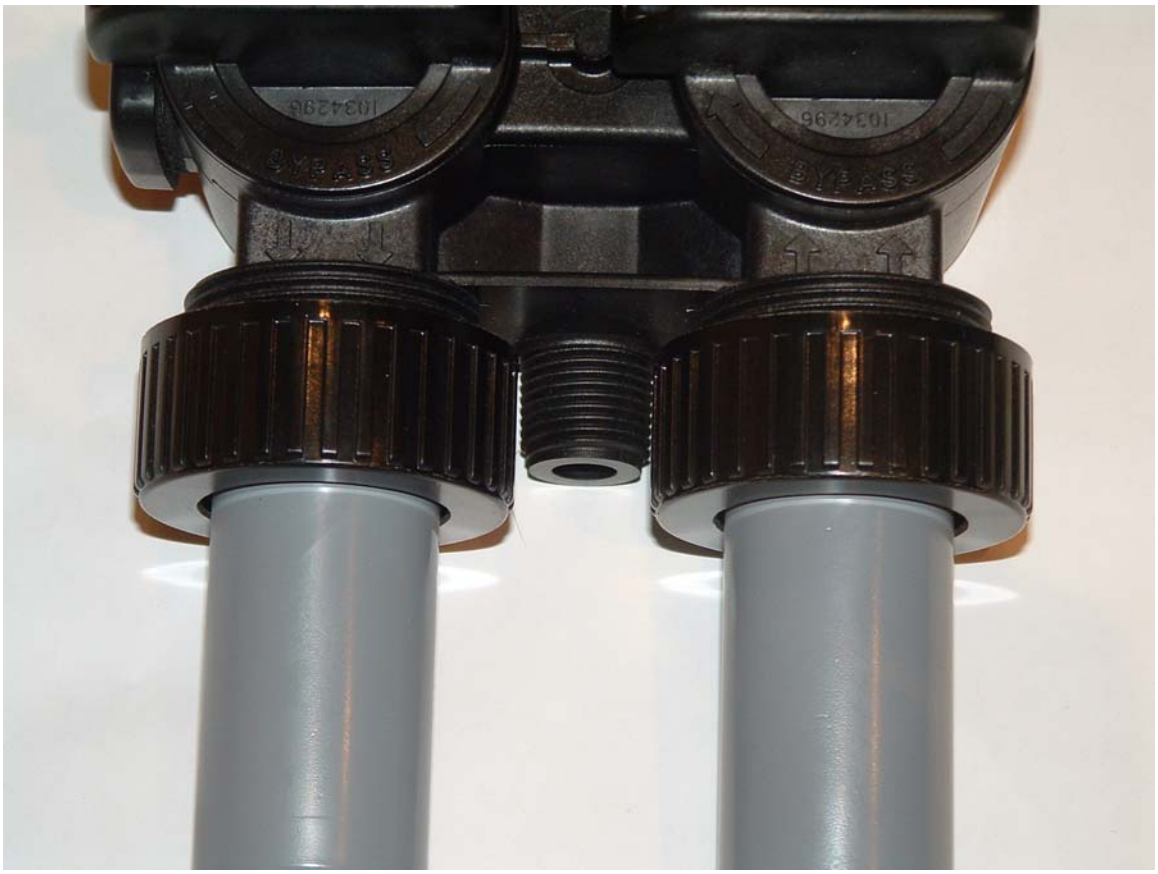
drain line will be under high pressure when the backwash cycle is working. Make sure the drain line is secured. The drain line will need to drain into a drain, which should be a minimum of 1 1/2" size, and ideally be below the top of the head of your softener. Local codes should be adhered to. (be sure to use teflon tape on this step).

Step 11:
Next you need to install the clear aircheck on to the valve with the ball inside the aircheck. Make sure you lubricate the o-ring well and be careful not to pinch the o-ring during installation. Also, do not tighten the screws too much as that can crack the aircheck.

Step 12:
You will now need to connect the brine tank line to the water softener valve. Attach the clear tubing provided from the brine tank to the clear aircheck you just installed(the clear circular housing that has the ball inside). First screw on the white elbow fitting to the aircheck (be sure to use some Teflon tape to prevent leaking) then attach the tubing to the elbow. On the other end, attach the tubing to the brine tank as shown below.



On the GE Logix the middle connection is where you will connect this drain line.



Note: Never connect the drain line directly into a drain. Allow an air-gap between the drain line and waste line to prevent possibility of back- siphoning.

Step 13:
INITIAL POWER UP

1. Add salt to the salt tank after moving it to the desired spot that is accessible for refill. With a bucket or hose, add approximately 4 to 6 gallons of water to the salt tank.

2. Set your bypass in bypass mode and slowly turn on the main water valve to your home until all pipes are pressurized. Now open the bypass valve SLOWLY. You do not want to be surprised by leaks. Let the resin tank fill completely, then open the bypass valves the rest of the way. CAUTION: If opened too rapidly or too far, resin may be lost out of the tank into the valve or the plumbing. In the 1/4 open position, you should hear air slowly escaping from the valve drain line.

3. Plug the power supply transformer into a socket that is not controlled by a switch or timer.

IMPORTANT NOTES BEFORE PROGRAMMING:

ATTENTION: You will only need to use sections A,B,C, or D in the Mfg. Manual to program your softener.

Make sure you set up your system capacity (refer to your manual here) for 90% of your total capacity for reserve water in case you have excessive water uses from time to time. Ex: 32,000 grains x 90% = 29,000grains.

Also, know that 32,000 grains of capacity = 1 cubic ft. When programming the controls you may need to set up the control for 90% cubic foot (29,000 grains) or 1 cubic foot (32,000 grains) or 1.25 cubic foot (40,000 grains) etc.

For Logix controls, always use the standard (S) setting for your salt setting. Unless you have high iron (above 1 ppm) levels then use the high (H) setting.

4. Program your water softener. Set the time of day, hardness and capacity if necessary. Here is where you will need to refer your owner's manual for your particular water softener settings and programming.

5. Once your softener is programmed advance your controller to manual regeneration. The regeneration process can take a while.

6. Check for any leaks during this initial regeneration. Also make sure that there is water in the salt tank after the regeneration is complete.

7. After the initial regeneration it is always a good idea to put your water softener into a second manual regeneration to ensure that the salt has dissolved making a full brine solution.

8. Your softener should now be providing you with softened water.