

INSTALLATION & START-UP INSTRUCTIONS

AUTOTROL LOGIX 255-760 METER WATER SOFTENER SYSTEMS



Preface:

Thank you for your purchase of a new Water Softener with Autotrol LOGIX 255-760 Meter from QualityWaterForLess.com! We have put together these instructions as reference, and to be used as general installation guidelines. It is always recommended that a licensed plumber perform all installation work according to all local codes. We at QualityWaterForLess.com cannot assume responsibility for improper installation, application, or injury or damage as a result of improper installation.

Pre-Installation Guidelines:

Before assembly of your new system, be sure that the following conditions have been met for placement of your system:

- Level, firm surface, such as concrete, on which to place the softener tank and salt tank (as known as a 'brine' tank)
- Nearby floor drain or standpipe to connect to the softener for use during each regeneration
- Un-switched power source, standard US plug, 120v 60hz (the softener system includes a 10ft. power cord and plug)
- Access to the water main coming into your home. You will need to install the softener at this point to assure that water for the home is going through the system.

Placing and Filling the Tank:

- Choose the final location for your water softener tank, and place the tank upright and level on the surface.
- Filling the tank may be necessary on some systems. Your tank may have also come prefilled, and in this case you only need to unscrew the protective cap as shown below in Figure 1 and move on to the next section.



FIGURE 1

- **If your tank is not pre-filled, please follow the additional instructions below.**
- First, place the riser tube into the tank as shown in Figure 2. **NOTE: Please be sure that the riser tube seats into the bottom of the tank, and that the top of the riser tube is Approximately 1” above the top of the tank lip.**

FIGURE 2



- Before filling the tank, place a piece of duct tape over the top of the riser to prevent resin from dropping down inside the riser tube as shown in Figure 3.
- Place the included filling funnel over the top of the tank as shown in Figure 4, and prepare to fill the tank. **If your softener system came with Gravel, please pour this amount into the tank FIRST, then pour in the included resin media afterwards.**



FIGURE 3



FIGURE 4

- Remove the filling funnel and duct tape and go on to the next section

Installing the Autotrol LOGIX 255-760 Meter Control Valve:

- Using the included silicone lubricant packet, lubricate the inner and outer o-rings on the bottom of the Autotrol LOGIX 255-760 Meter Valve as shown in Figures 5 & 6 below.



FIGURE 5



FIGURE 6

- Next, place the Autotrol LOGIX 255-760 Meter Valve onto the top of the tank, being sure that the riser tube fits into the central o-ring on the valve, as shown in figure 7 below. Hand tighten the valve to the tank snugly by hand only. **NOTE: Do not use Teflon tape or pipe dope on the valve or tank threads.**



FIGURE 7

- Locate the plumbing adaptors and bypass valve assembly that was shipped with your system as shown in figure 8 on the following page.
- Using the included silicone lubricant packet, lubricate the three o-rings included and assemble them to the back of the valve as shown in figure 9 on the following page.
- Finally, push the bypass valve snugly to the back of the Autotrol LOGIX 255-760 valve as shown in Figure 10 on the following page. Use the screws and nuts to secure the bypass valve as shown in figure 11 on the following page.



FIGURE 8

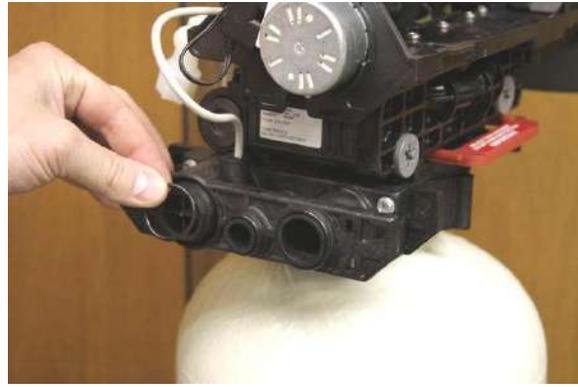


FIGURE 9



FIGURE 10



FIGURE 11

- Locate the two plumbing adaptors supplied with your system. Insert the plumbing adaptor through the universal nut as shown in figure 12 below.
- Next push down the gasket over the adaptor flange as shown in figure 13 below.
- Secure each plumbing adaptor onto the bypass as shown in figure 14.



FIGURE 12



FIGURE 13



FIGURE 14

NOTE: If using copper connections, first prefabricate and sweat a 12" tube section onto each adaptor and cool BEFORE assembly to the bypass. This allows you avoid overheating the nut and bypass during future plumbing.

Plumbing your Fleck 7000SE Meter:

- Before beginning your installation, please first familiarize yourself with the “IN” and “OUT” on the Autotrol LOGIX 255-760 Meter Valve. **In order to prevent damage to your home and to the softener system, install the softener according to the “IN” and “OUT” arrows on the softener valve!**



- Find the main shut-off valve for your house and turn it to the “OFF” position. If you have a private well, this valve should be near your well pressure tank. If you have a city water supply, your valve should be near your water meter.
- Depressurize and drain your home of water by turning on all faucets and fixtures in your home, including those outside.
- Pick your installation point, and cut a section of pipe out to run to and from your softener. **NOTE: In many cases, it is preferred to keep outside lines UNSOFTENED. If you wish to keep your outside lines unsoftened, you must plumb “Bypass” lines to run hard water to these fixtures.**
- Using soldered copper, PVC plastic pipe, or flexible connections, plumb the system according to all local plumbing codes. **NOTE: If using copper pipe, please pre-fabricate at least a 12” section of pipe for the “IN” and “OUT” bound lines and use a wet rag on the lines being soldered to prevent heat damage during soldering!**
- Once all connections have been made, place the system into bypass by either using your existing 3-valve bypass, or by switching your included bypass to “IN BYPASS” position. The two bypass knobs should be pointing left-to-right.
- Next, gradually open your main valve and allow all air in your plumbing lines to escape slowly. Also, you may turn off all outside and inside faucets and fixtures.
- Check for leaks at your plumbing site for signs of slow drips, and rectify if necessary.
- Please DO NOT position the bypass valve to “IN SERVICE” at this time, as the installation is completed yet! **NOTE: Please take this opportunity to check and re-check the “IN” and “OUT” to make sure that they are correct!**

Making the Brine Tank Connection:

- Locate the included sight glass air check and brine fitting for the Autotrol LOGIX 255-760 Valve. The sight glass air check will look like a clear plastic vial with two screws, a rubber ball, and an o-ring.
- First, lay the rubber ball onto the brine port of your valve as shown in figure 15.
- Lubricate and assemble the o-ring over the port flange as shown in figure 16.
- Use Teflon tape on the sight glass air check as shown in figure 17.
- Assemble the brine fitting onto the sight glass air check as shown in figure 18, being careful not to over tighten.
- Finally, use the two included screws to assemble the sight glass air check to the valve as shown in figure 19.



FIGURE 15



FIGURE 16



FIGURE 17



FIGURE 18



FIGURE 19

- Locate the included section of included Brine Tubing. Loosen the compression nut on the brine fitting, and assemble the brine tubing to the brine fitting as shown in figure 20.
- Finger-tighten the nut and use a wrench to turn the fitting ½ turn more until snug as shown in figure 21 below. Please use care not to overtighten.



FIGURE 20



FIGURE 21

- Locate the included brine tank, and remove the brine tank cover shown in Figure 22.
- Next, locate the brine well, and remove the cap as shown in Figure 23.



FIGURE 22



FIGURE 23

- Pull the 2310 brine float assembly out of the brine well and disassemble the retaining nut as shown in Figure 24 on the following page.
- Next, assemble the 2310 brine float assembly to the brine well through the pre-drilled hole and hand-tighten as shown in figure 25 on the following page.



FIGURE 24



FIGURE 25

- Take the other end of your brine line tube and insert the tube through the small hole drilled through the brine tank, and brine well. Loosely unscrew the hex nut on the 2310 brine float assembly. Insert the tubing end firmly into the hex nut on the 2310 brine float assembly.
- Next back-off the hex nut and ferrule assembly so they are securely onto the tubing as shown in Figure 26 below. **NOTE: Please be sure to assemble the nut in the fashion described to prevent system malfunction and possible brine tank overflow!**
- Hand-tighten the hex nut snugly onto the 2310 brine float assembly as shown in Figure 27 below.
-



FIGURE 26



FIGURE 27

- Finally, use ½" I.D. tubing to connect the drain bard fitting on the brine tank to a floor drain as shown in Figure 28 on the following page. **NOTE: This is not necessary as the 2310 assembly is designed to prevent an overflow situation, , but is a good and recommended precaution for a proper installation.**

FIGURE 28



Making the Drain Connection:

- Locate the drain port on the bypass, and apply Teflon tape as shown in figure 29 below.
- Locate the included drain barb elbow and assemble the fitting as shown in figure 30 below.



FIGURE 29



FIGURE 30

- Next, assemble your ½" I.D. drain line to the drain barb as shown in Figure 31 on the following page. Be sure to use rigid wall ½" I.D. tubing that will not flatten
- Wrap electrical tape over the drain tubing to prevent a tubing split, and clamp the tubing securely into place with the included blue clamp as shown in Figure 32 on the following page.



FIGURE 31



FIGURE 32

- Connect the other end of this drain line tubing **SECURELY** to a standpipe or drain in accordance with all local plumbing codes. **NOTE: Be sure that the drain line is securely in place before the use of the water softener system. When the system regenerates, there will be increased flow via this tubing, which may cause the tubing to become loose.**

Programming the Autotrol LOGIX 255/760 Meter Valve:

- Before start-up a few simple steps must be followed to program the Autotrol LOGIX 255/760 Meter Valve. It will be important to know what your water Hardness and Iron is before doing this programming procedure. If you do not know your water hardness, or if you are unsure, you may wish to have it tested by sending us a sample for testing, or by taking a sample to a local pool supply, or hardware store.
- Your Hardness test results may indicate “Grains”, “PPM”, or “mg/L”. It is important to note that PPM and mg/L are the same measure and both figures can be treated interchangeably. If you get a hardness figure in PPM or mg/L, please divide this number by 17.1 to get Grains. **Ex: If your hardness is measured at 300 PPM, your Grains are $300 / 17.1 = 18$ Grains.**
- Your Iron results should be measured in either “PPM” or “mg/L”. Add your level of iron multiplied by 5. Add this number to your hardness level. This final figure will be your Total Hardness Level that we will program into your softener system.
- Before programming may begin, the power cord must be connected to the LOGIX 760 timer on your valve. Begin by locating the small locking tab to the left side and to the rear of the timer as shown in figure 33 on the following page.
- Release the tab by pushing down on it and allowing the timer assembly to swing outward as shown in figure 34 on the following page.
- Locate the included transformer power pack, and string the male end of the cord under the timer bracket and into the timer as shown in figure 35 on the following page.
- Affix the cord to the valve by tracing the other cables as shown in figure 36 on the following page.

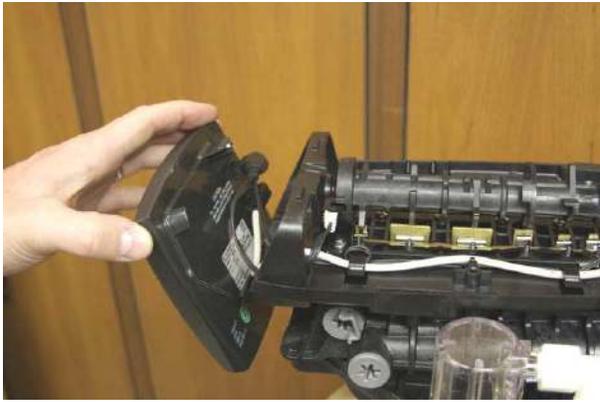


FIGURE 33

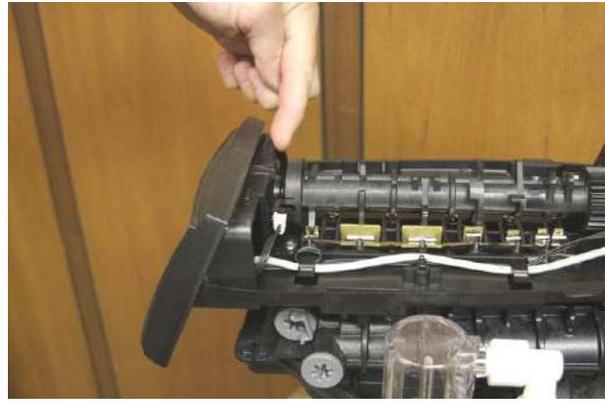


FIGURE 34



FIGURE 35



FIGURE 36

- Now that the power cord has been connected to the timer, please plug the transformer into a wall socket to power-up the timer.
- The timer will show “ - . - - “ as shown in figure 37 below. NOTE: If this does not show up initially, your system has been pre-set by us. Skip ahead to the next section!
- Use the “up” arrow to input the number corresponding to your system size. Simply divide your system size by 32,000 (EX: $40,000 / 32,000 = 1.25$). Press the “set” button to make this setting active.



FIGURE 37

- You will next see the time of day on the screen as shown in figure 38 below. Press the “set” button to make the time of day begin to flash. Use the “up” or “down” buttons to make the appropriate changes to the time of day noting that there is a difference between “AM” and”PM”. Once the time has been changed, press the “set” button to make this setting active.



FIGURE 38



FIGURE 39

- You will next see the day of the week on the screen as shown in figure 39 above. Press the “set” button to make the day of the week begin to flash. Use the “up” or “down” buttons to make the appropriate changes to the day of the week. Once the time has been changed, press the “set” button to make this setting active.
- You will next see the regeneration time on the screen as shown in figure 40 below. Press the “set” button to make the regeneration time begin to flash. This setting is used to change the time during the day that the softener will choose to regenerate. This setting is usually set to 2:00AM, as typically water use is minimal during this time period. Use the “up” or “down” buttons to make the appropriate changes to the regeneration time day noting that there is a difference between “AM” and”PM”. Once the time has been changed, press the “set” button to make this setting active.



FIGURE 40



FIGURE 41

- You will next see the calendar override on the screen as shown in figure 41 above. This setting is used to override the meter for your water softener, and will force

regeneration after a set number of days if the meter usage alone does not automatically initiate it. **(EX every 7th day no-matter what)** The “0” means that the meter will solely regenerate the system and is typical. Press the “set” button to make the override number begin to flash. Use the “up” or “down” buttons to make the appropriate changes. Once this has been changed to the desired setting, press the “set” button to make this setting active.



FIGURE 42



FIGURE 43

- You will next see the salt setting on the screen as shown in figure 42 above. Press the “set” button to make the salt setting begin to flash. **The salt setting may be set to “L” – for hardness under 10 grains per gallon, “S” – for hardness between 10 and 20 grains per gallon, and “H” – for hardness aboe 20 grains per gallon.** Use the “up” or “down” buttons to make the appropriate changes to the salt setting. Once this has been changed, press the “set” button to make this setting active.
- You will next see the capacity on the screen as shown in figure 43 above. **DO NOT CHANGE THIS VALUE!** This number is based on your salt setting chosen above, and should not be changed. Press the “down” button to make this setting active.
- You will next see the hardness on the screen as shown in figure 44 below. Press the “set” button to make the hardness number begin to flash. Use the “up” or “down” buttons to make the appropriate changes to the hardness based on your water supply. Once this has been changed, press the “set” button to make this setting active.



FIGURE 44

- The display should now show the time of day and the amount of gallons remaining. This display will switch between these valves about every 10 seconds. **Note that there is a “PM” light indicator to differentiate between AM and PM times.**

Initial Start-Up:

- With one nearby softened faucet running in the COLD position, slowly open your bypass valve or 3-valve bypass to about ¼ open to allow the air trapped in the softener to escape via your running faucet. See page 6 in this guide for illustrations. **NOTE: Opening the bypass too quickly or too fully open may damage your softener or plumbing.**
- Allow the softener tank to slowly fill with water, and then gradually move your bypass valve to the fully open position. **NOTE: You may see some initial discoloration from the softened water – this is normal and should dissipate within the first 40-50 gallons of water used.**
- Turn off the nearby faucet when the water runs clear.
- Add approximately five gallons of water to your brine tank, and add 120-160 pounds of pellet, solar, or block salt or potassium chloride to your brine tank.

Enjoy Your Softener!

Congratulations, you have successfully installed your new water softener with Autotrol LOGIX 255-760 Meter Valve!

Please maintain your system by keeping the softener plugged-in and always keep your brine tank filled with salt to at least above the water level.

We appreciate your business, and hope that you enjoy years of trouble-free softened water!

- QualityWaterForLess.com