



Fleck 5600SXT Ultimate Water Softener and Carbon Filter



Step 1- Confirm you've received all components



Open your packages and confirm that you have received all the correct components. If you are missing any of the listed items below, please contact us at 866-278-4130 ext 1 or email us help@qualitywatertreatment.com

Package Contents:

Tanks

- 1 – Mineral tank prefilled with carbon
- 1 – Mineral tank prefilled with resin
- 1 – Brine tank

Brine Tank

- 1 – Brine well with safety float
- 1 – Brine line
- 1 – Overflow elbow

Clack In/out Head

- 1 – Clack valve with basket attached
- 1 – Clack bypass valve
- 1 – Pair ¾" male threaded elbow adapters

Fleck 5600sxt Valve

- 1 – Fleck 5600sxt metered valve
- 1 – Basket
- 1 – 3/4" threaded yoke
- 1 – Bypass
- 1 – Drain barb
- 1 – Flow meter (already attached)
- 1 – Small parts kit (nut, ferrule, tube insert and screen)

Link to installation video water softener

<https://youtu.be/FfD7hPm-Eok>

* Not included but required – Salt, Teflon Tape, fittings to connect softener to your plumbing & ½" ID drain line. Please be sure to visit our website for installation resources to assist you during your install. Phone: 866.278.4130 – Monday thru Friday 9am to 7pm central Standard Time.

Email: help@qualitywatertreatment.com

Carbon Filter Installation

Step 1 - Assemble in/Out Valve



1. Please read entire manual before starting the installation. Please Verify you have all parts.
2. Lube O-ring located on the bottom of the in/out head.



3. Verify that the basket is securely fastened to the in/out head and connect with distributor tube located in the carbon tank. Make sure that the tube is inserted into the basket. To secure in place twist clockwise till tight

Step 2- Attach Bypass Valve



1. Lube O-rings on the bypass valve and attach bypass valve to the in/out head, fitting the female ends with the easy tighten nuts onto the female ends of the in/ out head. Hand tighten the nuts to seal the connection between the bypass valve and the in/out head.

Step 3 – Rinse

1. Find a location outside which you can reach with a garden hose. You will be running water so a downward sloped driveway would be a great location.
2. Place the hose in either one of the openings located on the 'In & Out' head. You will be rinsing from both sides before completing this process. Valve to Carbon Tank
3. Open garden hose valve slowly to begin filling the tank (takes a few minutes). Once a steady trickle begins pouring from the opposite port, increase the water pressure. Do this for about 15 to 20 minutes until water flows clear. * Installers Tip: Once water looks clear, hold your hand under the flowing water. Your hand will contrast against faint traces of sediment and help you see when the water is fully rinsed.
4. Now it's time to switch rinsing directions. Position the water hose in the opening of the opposite port and begin filling. Continue rinsing until water runs clear. The rinsing phase is now complete.

Step 4 – Assembling Elbows



Assembling the two male pair 1" male threaded elbow adapters. You will be placing the nut followed by the white slip ring. Push the white slip ring down to the inner most groove. Next, slide the split ring onto elbow, placing in last groove. Repeat for remaining elbow.

Step 5- Upflow Configuration



1. Lube O rings.
2. Fit the elbow adapter end with the O-rings onto the bypass valve, tighten the easy connect nuts. Repeat with other elbow assembly. **Note:** The elbows are configured to be used in any direction. Household plumbing can be coming from below, the top or even the side. This is the standard fitting included with the package. To accommodate various plumbing types, alternate fitting configurations are available and assemble identically to the bypass valve. **Do not use a wrench to tighten fittings and parts.** Using a wrench to tighten will crack the plastic. Only hand-tightening is needed.

Water Softener Valve Set up

Step 6 – Plan Your water Softener system Location

Plan where to position your water softener system:

1. Position 5 ft. from power source to operate
2. Requires water drain for disposing of water
3. Requires access to home's main water line

Step 7- Begin Assembly: Fleck Valve to Mineral Tank



1. Apply silicone lube to small inner O-ring.

2. Attach top basket to the bottom of the Fleck 5600sxt valve. Insert large end of basket into groove and turn clockwise into locking position.

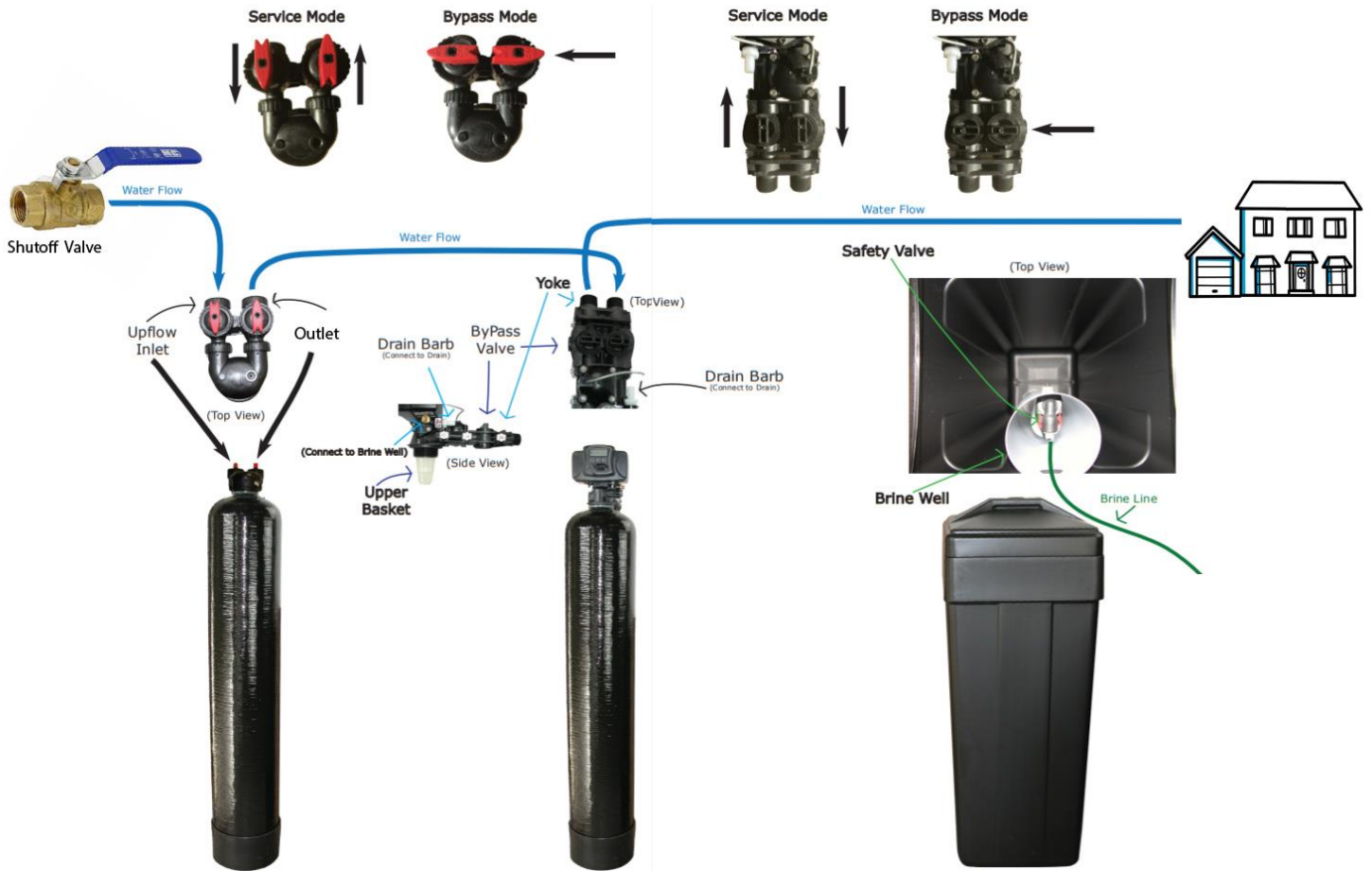


3. Apply a thin layer of silicon to large 'O'-ring located outside of threads.

4. Connect the Fleck valve to the mineral tank. Be sure to carefully line up the meter's top basket to the mineral tank's distributor tube. The mineral tank's distributor tube should fit inside the top basket. Once aligned, screw on Fleck meter to mineral tank's threads. Hand tighten until tank starts to spin. Do not hold tank and over tighten valve.



Set up / Flow Diagram For 5600SXT Ultimate Package



Meter and Bypass Valve Connection

Step 4 – Connect Bypass to Fleck Meter



1. Apply silicone lube to the 2 'o'-rings on the valve and make connection. We also recommend applying silicone to the inside of the female end on the bypass valve.



2. Position metal clips to clamp over the connection point and fasten with screw. Because the connection is O-ring sealed, it's important not to overtighten the screw. Overtightening will cause damage to the plastic assembly.

Step 5 – Connect Yoke to Bypass



1. Apply silicone lube to the 2 'o'-rings on the male connection on valve. Again, we also recommend applying silicone to the inside of the female end of the yoke prior to connecting.

2. Position both metal clips to clamp over the connection point and fasten screw. Remember not to over tighten screws.

Attaching Tank Lines

Step 6- Attach Drain line to Control Valve



1. Wrap threaded connection point with 3-4 wraps of Teflon tape. Install provided plastic barbed fitting.
2. Install drain line (not included) to barbed fitting (found on Fleck valve) with a stainless hose clamp (not included). Drain line should extend to a main drain to dispose of waste water

Step 7 – Attach Brine line



1. Prep brine line prior to install using brass nut, plastic Ferrule & brass tube insert.



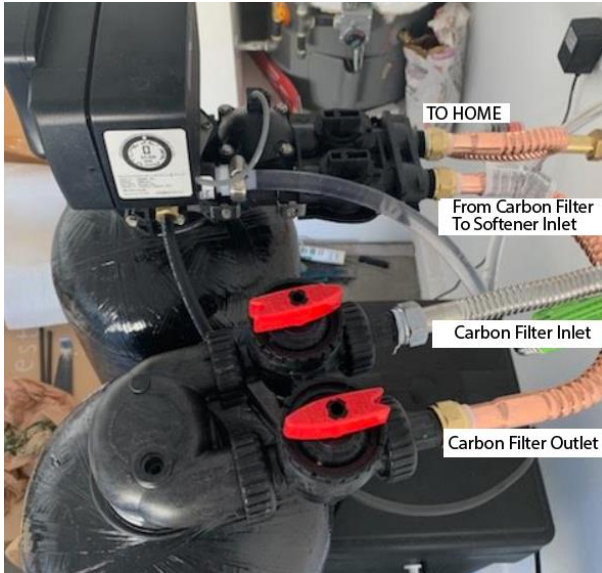
2. Connect provided brass nut to the Fleck valve. Be careful not to overtighten. Overtightening will cause damage.



Locate predrilled hole in brine tank. Fasten brine well to side wall of brine tank using the white overflow elbow & plastic nut.

Connect Brine line to safety Float

Step 8 – Connect Valve to Home Water Line



1. Connect Quick Connect Hose from Inlet side of Carbon Filter to Inlet water line.
2. Connect SS Hose from Outlet of carbon Filter to the Inlet of water Softener
3. Connect Quick Connect House from Outlet of Water Softener to Water going back in to the home.

Plug in the Fleck 5600sxt digital meter to a power receptacle. Your power source should be less than 5 feet in distance from the Fleck meter.

Turn bypass to 'in service' and let the tank fill slowly.

Turn on the closest cold water faucet to softener to bleed air from tank. See Next Page for Programming

Add 2 bags of Salt to brine Tank

Programming Your Water Softener

Water Hardness -

It will be important to know what your water Hardness and Iron content is before doing this programming procedure. If you do not know your water hardness or iron content you should either look up your city water quality report by going to Google and typing in: water quality report (enter your water supply company or the city that you are in) , or take a 8 oz sample to a pool supply store to have it tested. Your Hardness test results may indicate GPG, 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 Per Gallon " GPG". Iron results should also be measured in either PPM or Mg/L. Add your level of iron multiplied by 3. Add this number to your hardness level.

This figure will be your Total hardness content that you will program into your softener system. Example: if water hardness is 10 GPG and the iron is 1 PPM or Mg/L take the iron content of 1 and $x 3 = 3$ GPG hardness plus 10 GPG = total compensated hardness 13 GPG

Set the time on the system to 12:01 PM by pressing either the UP or DOWN arrow as shown in picture below. You can hold the button to allow the time to scroll faster.



Once the time display is set to 12:01 PM, press the "extra cycle button once as shown in the photo below.



To enter master programming mode, press the UP and DOWN buttons together and hold for 5 seconds, and then release the buttons, as shown in picture below.



The display should now show DF GAL as shown in the picture below. This indicates United States gallons. Do not change this value, and press the Extra Cycle Button once to continue.



The display should now show VT St 1b or df1b as shown in the picture below. This indicates Valve Type 5600 Mode) Do not change this value, and press the Extra Cycle Button once to continue.



The display should now show CT / Fd as shown in the picture below. This indicates Control Type Meter Delayed. Do not change this value, and press the Extra Cycle Button once to continue.



The display should now show NT - - - 1 as shown in the picture below. This indicates number of tanks is single. Do not change this value, and press the Extra Cycle Button once to continue.



The display should now show C 24.0 as shown in photo below. This indicates the Capacity is 24,000 grains. Use the UP or DOWN button to change this value to the size of your system, and press the Extra Cycle Button once to continue when finished.



The display should now show H 20 as shown in picture below. This indicates the Hardness is 20 grains) Use the UP or DOWN button to change this value to the total hardness of your water. Then press the Extra Cycle Button once to continue when finished.



The display should now show RS SF as shown in the picture below. This indicates Reserve Selection is Safety Factor percentage; do not change this value, and press the Extra Cycle Button once to continue.



The display should now show SF 10 as shown in the picture below. This indicates the Safety Factor is 10 percent. Use the UP or DOWN button to change this value to 15. Press the Extra Cycle Button once.



The display should now show DO 14 as shown in the picture below. This indicates the Day Override is 14 days the system will regenerate on the 14TH day if the meter does not otherwise automatically initiate a regeneration based on gallons used. Do not change this value, and press the Extra Cycle Button once to continue.



The display should now show RT 2:00 as shown in picture below. This indicates the system will regenerate at 2:00AM, assuming the system clock is set accurately. Press the Extra Cycle Button once to continue.



The display should now show BW 10 as shown in the picture below. This indicates Backwash Time is 10 minutes. Do not change this value, and press the Extra Cycle Button once to continue.



The display should now show BD 60 as shown in picture below. This indicates Brine Draw Time is 60 minutes. Do not change this value, and press the Extra Cycle Button once to continue.



The display may now show RR 10 as shown in picture below. This indicates Rapid Rinse Time is 10 minutes) Do not change this value, and press the Extra Cycle Button once to continue if this value is different, use the UP or DOWN buttons to change it.



The display may now show BF 12 as shown in picture below. This indicates the length of the Brine Refill Cycle during regeneration. Change this value to the proper number for your system capacity below, and press the Extra Cycle Button once to continue. If this value is different, use the UP or DOWN buttons to change it.

24,000 Grain System = 8 minutes

32,000 Grain System = 10 minutes

40,000 Grain System = 11 minutes

48,000 Grain System = 14 minutes

64,000 Grain System = 16 minutes

80,000 Grain System = 18 minutes

96,000 Grain System = 20 minutes



The display may now show FM t0.7 as shown in picture below. This indicates Flow Meter type 3/4" Turbine. Do not change this value, and press the Extra Cycle Button once to continue if this value is different, use the UP or DOWN buttons to change it.



The system will now exit the Master Programming mode, and the display should now show the time of day, followed by the new number of gallons remaining, as shown in the picture below. Change the time of day by pressing and holding the UP or DOWN button until the proper time setting is shown. There is a PM light indicator to show the difference between AM and PM times.
