

NaturalSof 6L Initial Start-Up Sequence

Subject: 6L With The NWS-5 Button Control Valve (Head) page 1 of 2

Attention Installer: All NaturalSof Filtration Tank Appliances Must Be Transported In The Vertical Up Right Position. **AVOID** Transporting Or Resting Tanks On Their Side Horizontally At All Times.

Please complete this initial start-up sequence after programming and before putting the 6L into Service. Failure to do so will result in fouling the plumbing system and connected appliances with carbon fines. Duration: Approximately 50 Minutes

Backwashing The Vessel Media

1. Bypass valve in and out in the OFF position.
2. Turn the isolation valve to the OFF position. Installed on the outlet pipe.
3. Connect a garden hose to the drain cock installed on the outlet pipe above (upstream) of the Isolation valve. Set the other end of the hose at a safe place for drainage. Close drain cock.
4. Slowly open the inlet side of the bypass valve 1/3 of the way. Example: 3:00 is Off and Open to 2:00 position. Fill the vessel slowly until full.
5. On the Control Valve, Push and Hold the REGEN button for four seconds -The control valve will Display "BACKWASH" 8 MIN countdown and begin. At 7Min Unplug the power supply for 20 minutes. During this time, observe water running through the control backwash drain. While flushing out the carbon fines, black to gray to cloudy water is expected. Continue flow until clear water is achieved.
6. Upon observing clear water flowing out of the backwash drain, plug the power supply into the outlet. "BACKWASH" cycle will resume. The control will advance "RINSE" 8MIN > "Filtering" > then to HOME "Time of Day".
Proceed to the next step.

Flushing The Vessel Media

1. Confirm the isolation valve is in the full Off position.
 2. Turn the bypass inlet valve to Full Open.
 3. Turn the bypass outlet valve slowly to half open.
 4. Open the drain cock slowly throttle flow while observing water flow from the end of the garden hose for up to 20 minutes or longer until continuous clear flow is achieved.
 5. Turn the drain cock Off.
 6. Turn the bypass outlet valve to the full open position.
- The flushing vessel media is complete. Proceed to the next step.

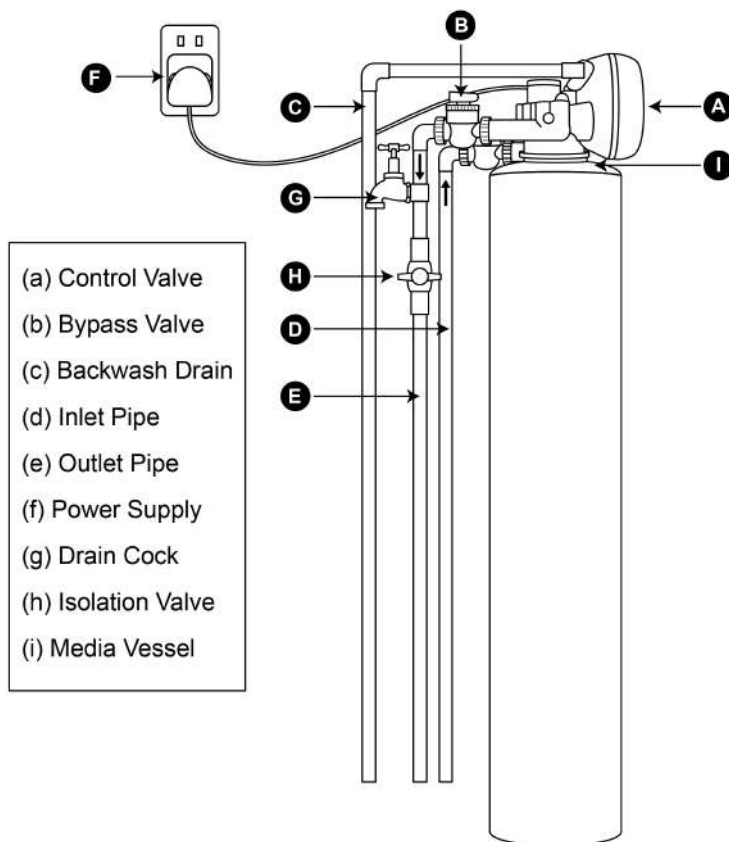
Placing 6L into Service

1. Confirm isolation valve is in the full OFF position.
 2. Confirm the inlet & outlet on the bypass valve are full OPEN position.
 3. Turn the isolation valve slowly to the Open position.
 6. Beginning with the furthest tap connected on the plumbing system, open cold water to purge air. Repeat this step at each cold and hot faucet.
 7. Remove the hose faucet from the drain cock.
- The Initial Start-Up Sequence is Complete.

Naturalsof 6L Reference Sheet

Subject NWS 5 Button Control Valve (Head) page 2 of 2

Attention Installer: It's important to protect the power supply by using a surge protector. This will safeguard the Control Valve's programming board from any potential electrical damage. Plumbing connections must have an isolation valve (H) and a drain cock (D) on the outlet pipe within 2 feet. This is required for use during the initial start-up, water sample collection, and service diagnostics when troubleshooting.



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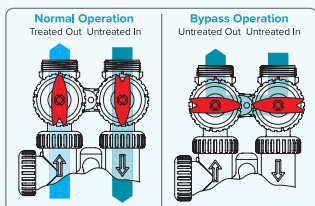


Model: NS16L-1054

USER GUIDE

BYPASS OPERATION

To shut off water to the system, please position arrow handles as shown in the bypass operation diagram to the right.



ERROR SCREENS

ERROR Screen displays when error occurs and no Dealer Information is present. Top line will display specific error while the 3 digits in the lower right side will display specific error code. Top line error display longer than 18 characters will scroll across display from right to left.



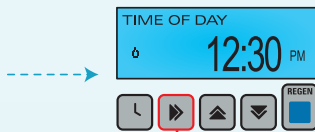
Alternating ERROR and Dealer Contact Information will display when an error occurs and Dealer Contact Information is present.

USER DISPLAYS

When the system is operating, one of five displays may be shown. Pressing **NEXT** will alternate between the displays shown below.

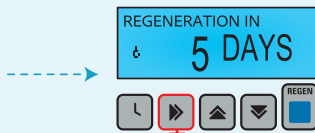
User 1

Home screen displays Time of Day. If PM is not shown time is AM. Water droplet indicates flow detected.



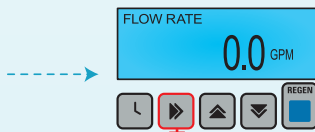
User 2

Displays number of days to next REGEN



User 3

Displays the rate of flow in Gallons Per Minute of treated water in use.



User 4

Displays dealer contact name and number when programmed in the Installer Level. Step 4IL



BUTTON OPERATION & FUNCTIONS

- NEXT** Scrolls to the next display.
- REGEN** Pressing once and releasing will schedule a regeneration at the preset delayed regeneration time.
 - Pressing again and releasing will cancel the regeneration.
 - Pressing and holding for 3 seconds will initiate an immediate regeneration
 - Pressing and release while in regeneration will advance to the next cycle.
 - Pressing in the program levels will go backwards to the previous screen.
- UP** **DOWN** Changes variable being displayed.
- NEXT** **REGEN** Holding **NEXT** and **REGEN** simultaneously for 3 seconds initiates a control reset. The software version is displayed and the piston returns to the home/service position re-synchronizing the valve.
- UP** **DOWN** Holding **▲** and **▼** simultaneously for 3 seconds in Control Programming initiates a master reset. Resets programming and diagnostic level. Displays back to factory defaults. Retains current history level displays.
- CLOCK** **NEXT** **UP** **DOWN** **REGEN** Press any button to activate display

SETTING TIME OF DAY

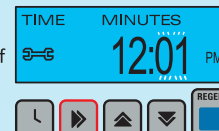
Press and hold **CLOCK** until **TIME HOUR** is displayed and the Hour and AM/PM flashes. Press **▲** or **▼** until the correct hour is displayed.

Then press **NEXT**. The Minutes will flash. Press **▲** or **▼** until the correct minute is displayed.

Press **NEXT** to return to the Time of Day screen.



Time of day should only need to be set after power outages lasting more than 8 hours, if the battery has been depleted and a power outage occurs, or when daylight savings time begins or ends. If a power outage lasting more than 8 hours occurs, the time of day will flash on and off which indicates the time of day should be reset. If a power outage lasts less than 8 hours and the time of day flashes on and off, the time of day should be reset and the battery replaced. Type #2032 3V Lithium Battery



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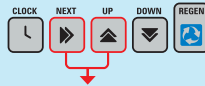
Model: NS16L-1054

INSTALLER LEVEL PROGRAMMING

INSTALLER LEVEL

Step 1L

Press any button to activate display. Press **NEXT** and **▲** simultaneously for 3 seconds and release. If the screen in **Step 2IL** does not appear, the Dealer Lockout is activated.



Step 2IL

- Press **▲** or **▼** to adjust the Day Override. 1 - 10 days is selectable.
- Press **NEXT** to go to Step 4IL.
- Press **REGEN** to return to previous step.



Step 3IL

- Press **▲** or **▼** to adjust Regeneration Time Hours and AM/ PM. Press **NEXT** to adjust Time Minutes.
- Press **NEXT** to go to Step 4IL.
- Press **REGEN** to return to previous step.



Step 4IL

- Press **▲** or **▼** to turn Light On or Off.
- Press **NEXT** to **EXIT** or Go to **SET DEALER INFO** Below



Set Dealer Info

- From Step 4IL, press **CLOCK** and **▲** simultaneously for 3 seconds and release to enter your dealer contact phone number.
- Press **▲** or **▼** to adjust the number. Press **NEXT** to go to the next digit position. Repeat until the dealer phone number is complete.
- Continue to Press **NEXT** to go to Set Dealer Name.
- Press **REGEN** to return to previous step.



Set Dealer Name

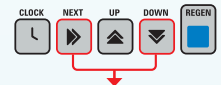
- Press **▲** or **▼** to adjust the dealer contact name. Press **NEXT** to go to the next digit position. Repeat until the dealer name is complete.
- Press **NEXT** to **EXIT** Installer Level Settings.
- Press **REGEN** to return to previous step.



NWS CONTROLLER - FILTER SYSTEM SETUP

Step 1F

Press any button to activate display. Press **NEXT** and **▼** simultaneously for 3 seconds and release. If the screen in **Step 2F** does not appear, the Dealer Lockout is activated.



Step 2F

- Choose **FILTERING BW/RINSE** using **▲** or **▼**.
- Press **NEXT** to go to Step 3F.
- Press **REGEN** to exit Filter System Setup.



Step 3F

- Select the Backwash Time for the first cycle using **▲** or **▼**.
- Press **NEXT** to go to Step 4F.
- Press **REGEN** to return to previous step.



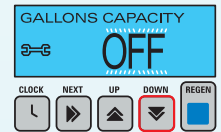
Step 4F

- Select the Rinse Time 8:00 for the second cycle using **▲** or **▼**.
- Press **NEXT** to program the rest of the cycle time minutes.
- Press **NEXT** to go to Step 5F.
- Press **REGEN** to return to previous step.



Step 5F

- Select **GALLONS CAPACITY** to "OFF" = Time Clock **REGEN**.
- Press **NEXT** to go to Step 6F.
- Press **REGEN** to return to previous step.



Step 6F

- Set Relay 1 to "OFF" using **▲** or **▼**.
- "OFF" is the Default.
- Press **NEXT** to go to Step 7F.
- Press **REGEN** to return to previous step.



Step 7F

- Set Relay 2 "OFF" using **▲** or **▼**.
- "OFF" is the Default.
- Press **NEXT** to go to Step 8F.
- Press **REGEN** to return to previous step.



Step 8F

- Set Service Alarm using **▲** or **▼**. Select **TIME** Press **NEXT** using UP or Down select time by quarter year
- "OFF" is the Default.
- Press **NEXT** to **EXIT**
- Press **REGEN** to return to previous step.

