



# NWTS Homeowners Guide

## 1", 1-1/4", 1-1/2", 2" & Twin Control Valves

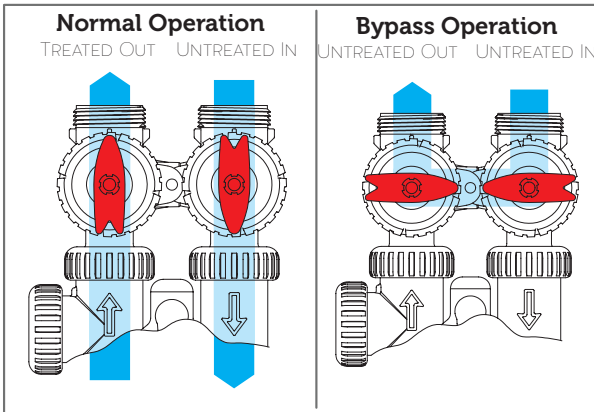


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## ByPass Operation

To shut off water to the system, please position arrow handles as shown in the bypass operation diagram to the right. If your valve doesn't look like the diagram, contact your service technician for instructions on how to shut off water.



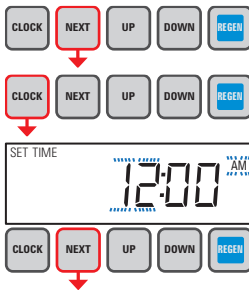
## Button Operation & Functions

### Button Operation and Function

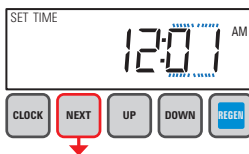
-  Scrolls to the next display.
-  Pressing once and releasing will schedule a regeneration at the preset delayed regeneration time.  
Pressing again and releasing will cancel the regeneration.  
Pressing and holding for 3 seconds will initiate an immediate regeneration  
Pressing while in regeneration will advance to the next cycle.
-   Changes variable being displayed.
-   Holding 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.
-   Used with a twin valve, 1.0Γ, holding for at least 3 seconds causes a switch in the tank in Service without cycling the regeneration valve. After tank switch, days remaining and capacity remaining status is retained for each tank until the next regeneration.

# Setting Time of Day

Push **NEXT** until time of day screen is displayed. Press and hold **CLOCK** until **SET TIME** is displayed and the hour flashes once. 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 Displays. 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.

## 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

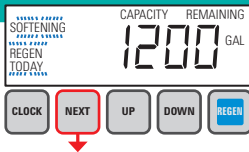
Typical user display. Shows Time of Day.



Softening, Filtering and Regen Today may be active in all user displays.

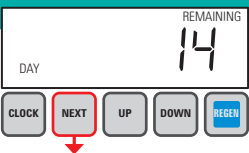
### User 2

Shows volume remaining to regeneration. This screen will not be viewed if the control is set for time-clock operation.



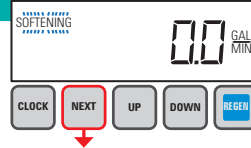
### User 3

Displays number of days to next regeneration. Not shown with metered regeneration.



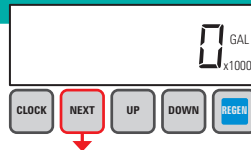
### User 4

Flow Rate. Displays present flow rate. Not viewed (along with SOFTENING or FILTERING Icon) if ALT A or ALT B is set in CONFIGURATION 4 and the valve is currently in Standby. When 1.0Γ is set in CONFIGURATION 1, the display will indicate the tank currently in Service ("A" or "b") in the left most digit.



### User 5

Displays total volume in gallons since last reset. If a meter is not used, this display will be shown but 0 will be displayed.



PRESS **▼** FOR 3 SECONDS TO RESET TO 0.

## Regen & Error Screens

### Regen Screen

Displays the time remaining in the current cycle.

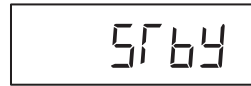
Pressing **REGEN** advances to the next cycle.



### Error Screen



Alternated flashing Err and error code every 3 seconds. Clear by disconnecting the power supply at the PC board and reconnecting or press **NEXT** and **REGEN** simultaneously for 3 seconds.



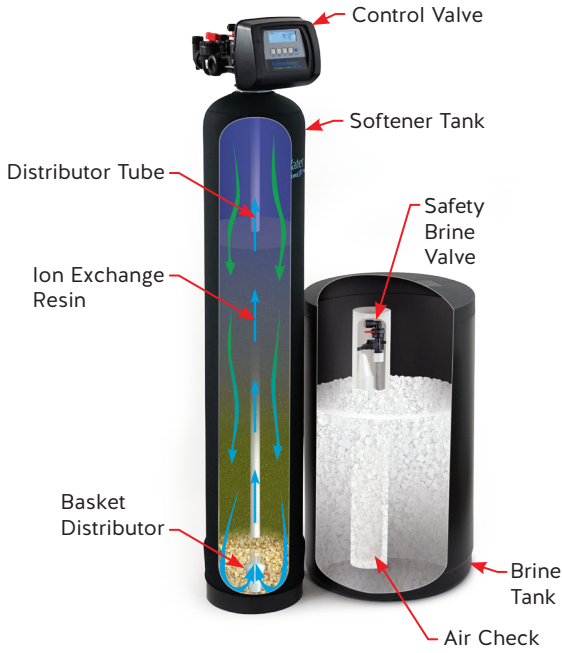
In Alternator Systems when a unit is waiting to initiate the first cycle step of regeneration, "REGEN Pndg" is displayed.

"STbY" is displayed in Alternator Systems when a valve is in Standby state.

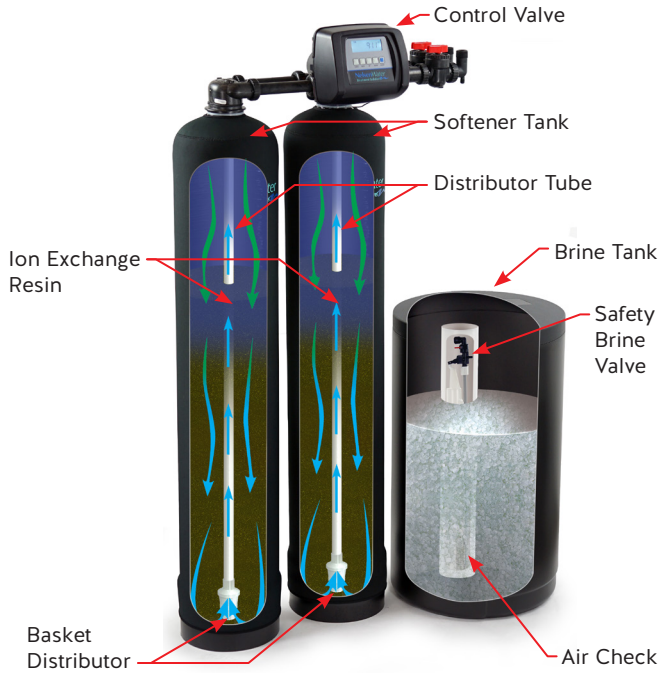
"REGEN Pndg RINSE FILL" is displayed whenever a zero-capacity tank has transferred to an off-line state and is currently waiting to initiate the second portion of a regeneration cycle. Viewed only when Delayed Rinse and Fill is set to ON.

# NWTS Water Treatment Systems

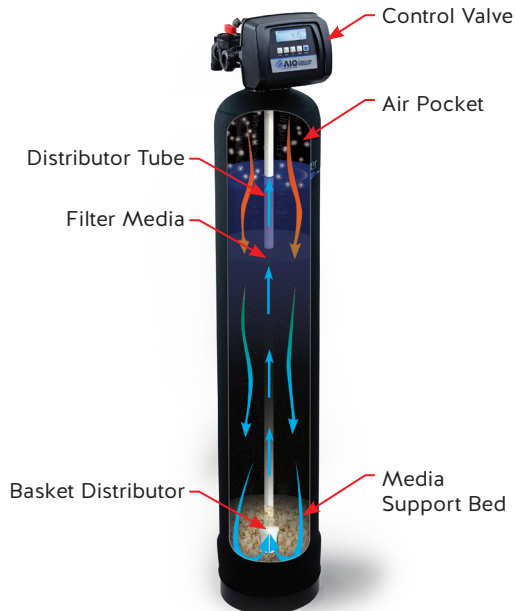
## Single Tank Softener



## Twin Tank Softener



## Air Injection Oxidation (AIO) Filter System



# Water Softener Maintenance

## Maintenance of Your Conditioner

**Salt:** Salt is vital to your system working correctly. Not only must a softener have salt, but it should be the proper type to insure efficient recharging of the unit. Ask your dealer what type of salt may best suit your needs. Always have an adequate supply of salt on hand. Check the salt level of your brine tank every couple of weeks initially to determine how much salt you use - this will depend on how much water you use. As a rule of thumb, with 20 gpg hard water, about a 1/2 lb. of salt per person per day is used. In other words, a family of four uses 60 lbs. of salt a month. Fill the tank approximately three-fourths full, with a minimum of 12" of salt. If your household does not use much water, do not fill your salt keeper over 1/2 full, salt bridging may occur in the brine tank. This may result in hard water due to ineffective regeneration. **DO NOT USE Block Salt.** Block salt does not dissolve quickly enough to provide a good regeneration.

**Cleaning Salt Tank:** The salt tank may require periodic cleaning. Inspect the salt tank at least once a year for buildup of insoluble materials. It is recommended to periodically clean the salt tank no matter what kind of salt you are using. **REMEMBER:** Salt is the fuel to run your water conditioner. **Buy the best clean salt available.**

## Operating Conditions

Your water conditioner has been designed to adequately handle up to 100 grains per gallon of hardness as well as up to 2 ppm of ferrous bicarbonate iron. This is iron that is dissolved in water and not visible to the eye in a freshly drawn sample. After standing in contact with air, the ferrous iron will become oxidized to the ferric state and start to precipitate as a reddish brown floc. It can be seen and may cause discolored water. In order for your softener to remove the iron, air (oxygen) must be kept from coming in contact with water until after it has been passed through the water conditioner. In some cases, additional equipment may be required to treat water supplies having special characteristics, such as: ferric hydroxide iron, iron bacteria, low pH, taste and odors, etc. If any question should exist, contact your dealer.

This water softener is not intended to be used for treating water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after treatment.

## Water Conditioner Draining Procedure

In cold weather climates it is common for plumbing systems that are not in use to be "winterized" or drained of all water to prevent any damage that may be caused by the excessive expansion of water when it freezes. To prevent damage to a water softener it must be properly drained also. A simple way to properly drain or winterize a water softener is to use compressed air to force all of the water out of the softener mineral tank. The following procedure will explain the process:

- 1) Initiate the softener into a manual regeneration cycle. After the refill cycle, advance control to backwash and allow it to complete the backwash cycle (this will clean the media) and start into the brine-draw cycle. Allow the regeneration to continue in the brine draw cycle until the brine is drawn out of the salt tank and the air check at the bottom of the brine pick-up tube shuts off. This should be done with each tank. **NOTE:** Be sure you have salt in the brine tank and allow 1 hour minimum to make a saturated brine. It is important that any liquid left in the softener tank when you finished blowing out system be saturated brine solution to prevent any damage to the softener. At this time no more brine is introduced into the softener and the slow rinse process begins.
- 2) Turn the water supply inlet and outlet valves off to the water softener as soon as the air check shuts off and no more brine is being drawn into the softener (at the beginning of the slow rinse process).
- 3) Unplug the electric power leaving the softener control valve in the brine draw cycle.
- 4) Remove the brine refill elbow assembly from the control valve. Remove the refill flow control retainer assembly from the elbow. Reinstall the elbow assembly and secure with the locking clip. Disconnect the brine tube at the top of the salt keeper and force air into the brine tube toward the softener mineral tank and control valve. The air will force the brine/water solution that was drawn into the mineral tank out to drain through the control valve drain line. (An air compressor blow gun attachment with a portable air compressor works well.) Reinstall the brine line flow control retainer inside of the refill elbow assembly. Reinstall the brine refill elbow assembly and secure with locking clip.

**CAUTION:** You do not want to apply any more pressure than necessary to force the brine/water out of the mineral tank.

# Water Softener Maintenance

The small amount of brine/water that may be left in the mineral tank will not expand enough to cause any damage to the softener when it freezes.

If your softener is equipped with an optional bottom drain on the mineral tank, you will have to follow all of the same procedures with the exception of the need for compressed air. With the brine tube disconnected from the salt keeper, raise it to a level above the softener control valve and temporarily secure it in this position. Now open the drain valve at the bottom of the mineral tank and allow all brine/water to drain from the mineral tank.

**CAUTION:** If a hose is connected to the drain valve to direct the brine/water to a floor drain be sure it runs downward and is unobstructed. When brine/water quits running at the drain, be sure to leave the drain valve open until you start the system up again.

5) At this time the salt keeper has very little water left in it. What liquid is left in the salt keeper is saturated brine, provided that there is still salt left in the tank. Saturated brine will not freeze solid and cause any damage and does not have to be drained any further from the brine tank.

If there is no salt left in the salt keeper when the system is drained we recommend dumping all of the water out of the brine tank at this time. See brine tank cleaning instructions. (#2 in Miscellaneous section, below)

6) **CAUTION:** It is important at this time to be assured that the inlet/outlet water supply piping is properly drained. Depending on how the water supply piping was routed to the water softener control valve, a water loop or trap may have been created. Sometimes drain valve(s) are installed at the bottom of the loop to assure all water can be drained out. If not it may be necessary to disconnect the control valve from the piping system and open the inlet/outlet valve(s) to allow all the water to drain from the piping. This should be done after the rest of the plumbing system is drained.

7) Draining or winterizing of your softener is complete.

## MISCELLANEOUS

1. Salt Usage: See your water conditioning professional for a recommendation on the best type of salt for your application.
2. Brine Tank Cleaning:
  - a. Remove brine tank cover.
  - b. Scoop out as much old salt as possible.
  - c. Disconnect brine tubing from safety brine valve at brine well.
  - d. Remove safety brine valve from brine well.
  - e. Place one hand in brine well to hold overflow nut and remove 2-piece overflow.
  - f. Remove brine well and optional grid plate, if used, from brine tank.
  - g. Remove any remaining salt and/or impurities from brine tank.
  - h. Using clean water and a brush or rag, wipe and rinse inside of brine tank. Wipe and rinse the grid plate and brine well.
  - i. Reassemble brine tank reversing steps c - f.  
Note: If grid plate is used and it is damaged or cracked, replace with new one.
  - j. Put brine tank in place making sure there is no debris or foreign material beneath it.
  - k. Reconnect brine tubing to safety brine valve.
  - l. Manually add 6 inches of water to the brine tank (or to approximately 1" above the grid plate, if used).
  - m. Add new salt.

**Important: Do not add the old salt which was removed earlier unless it is clean and not mushy. We recommend using new salt.**

- n. Follow the disinfection instructions found at top of page.
- o. Put on brine tank cover.

## Error Codes

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- 101 Unable to start = Valve not sensing valve movement with motor output energized
- 102 Motor Stalled = Valve unable to find next cycle position (stalled)
- 103 Motor ran too long = Valve unable to find next cycle position
- 104 Valve Homing = Valve unable to find Home position.
- 106 Alt MAV ran too long = Alt MAV motor ran to long - unable to find proper park position
- 107 Alt MAV Stalled = Alt MAV motor ran to short, stalled - unable to find proper park position
- 109 Invalid motor state = Control can no longer operate properly due to the detection of an invalid motor state
- 201 Invalid regen step = Control can no longer operate properly due to the detection of an invalid regeneration cycle step - Internal Software Error
- 202 Unexpected Stall = Motor encountered a unexpectedd stall which it was able to recover from and proceed normally
- 402 Power Down Memory = Control can no longer operate properly due to a check sum error for the Operational Data and Status Section of E2PROM memory
- 403 Program Memory = Control can no longer operate properly due to a check sum error for the Programming Section of E2PROM memory
- 404 Diagnostic Memory = Control can no longer operate properly due to a check sum error for the Diagnostic Section of E2PROM memory
- 405 History Memory = Control continues to operate normally w/check sum error for the History Section of E2PROM memory, however error is recorded in Error Log
- 406 Contact Memory = Control can no longer operate properly due to a check sum error for the Contact Screen Section of E2PROM memory
- 407 Status Ram = Control can no longer operate properly due to corrupted data detected in the Operational Data and Status Section of RAM memory. Once generated, the Error Mode is not entered nor an error display viewed, instead previously stored data (<6h
- 408 Diagnostic RAM = Control can no longer operate properly due to corrupted data contained in the Diagnostic Section of RAM memory. Once generated, the Error Mode is not entered nor an error display viewed, instead previously stored data (<6 Hours old) is u
- 410 Config Download = Configurator file downloaded to the control was not originally uploaded from another control with the identical software revision



# Troubleshooting

1. Control valve stalled in regeneration	<ul style="list-style-type: none"> <li>A. Motor not operating</li> <li>B. No electric power at outlet</li> <li>C. Defective transformer</li> <li>D. Defective PC board</li> <li>E. Broken drive gear or drive cap assembly</li> <li>F. Broken piston retainer</li> <li>G. Broken main or regenerant piston</li> </ul>	<ul style="list-style-type: none"> <li>A. Replace Motor</li> <li>B. Repair outlet or use working outlet</li> <li>C. Replace transformer</li> <li>D. Replace PC board</li> <li>E. Replace drive gear or drive cap assembly</li> <li>F. Replace drive cap assembly</li> <li>G. Replace main or regenerant piston</li> </ul>
2. Control valve does not regenerate automatically when REGEN button is depressed and held	<ul style="list-style-type: none"> <li>A. Transformer unplugged</li> <li>B. No electric power at outlet</li> <li>C. Broken drive gear or drive cap assembly</li> <li>D. Defective PC board</li> </ul>	<ul style="list-style-type: none"> <li>A. Connect transformer</li> <li>B. Repair outlet or use working outlet</li> <li>C. Replace drive gear or drive cap assembly</li> <li>D. Replace PC board</li> </ul>
3. Control valve does not regenerate automatically but does when REGEN button is depressed	<ul style="list-style-type: none"> <li>A. Bypass valve in bypass position</li> <li>B. Meter connection disconnected</li> <li>C. Restricted/stalled meter turbine or foreign matter</li> <li>D. Programming error</li> <li>E. Defective meter</li> <li>F. Defective PC board</li> </ul>	<ul style="list-style-type: none"> <li>A. Put control valve in service position</li> <li>B. Connect meter to PC board</li> <li>C. Remove meter and check for free rotation</li> <li>D. Check control valve set-up procedure</li> <li>E. Replace meter</li> <li>F. Replace PC board</li> </ul>
4. Time of day flashes on and off	<ul style="list-style-type: none"> <li>A. Battery back-up maintains time-of-day up to 2 years in event of power outage and battery is not depleted. Time of day flashes when battery is depleted.</li> <li>B. Prior to 2/2007, PC board did not have battery back-up - capacitor held time of day up to 2 hours. Power outage &gt; 2 hours.</li> </ul>	<ul style="list-style-type: none"> <li>A. Reset time of day and replace battery on PC Board (Lithium coin type battery 2032)</li> <li>B. Reset time of day.</li> </ul>
5. Softener delivers hard water.	<ul style="list-style-type: none"> <li>A. Bypass valve is open or faulty.</li> <li>B. No salt or low salt level in brine tank.</li> <li>C. Softener fails to draw brine.</li> <li>D. Excessive water usage.</li> <li>E. Insufficient brine level in brine tank.</li> <li>F. Resin level inadequate.</li> <li>G. Meter faulty.</li> <li>H. Raw water hardness fluctuation. highest known hardness.</li> </ul>	<ul style="list-style-type: none"> <li>A. Close bypass valve or replace.</li> <li>B. Add salt to brine tank and maintain salt level above water level.</li> <li>C. See problem #10.</li> <li>D. Check gallon capacity settings.</li> <li>E. Check brine refill setting and refill flow restrictor for blockage.</li> <li>F. See problem #7.</li> <li>G. Test meter and clean or replace meter.</li> <li>H. Test raw water hardness and adjust settings to</li> </ul>
6. Unit uses too much salt.	<ul style="list-style-type: none"> <li>A. Improper brine refill setting.</li> <li>B. Improper settings.</li> <li>C. Excessive water in brine tank.</li> <li>D. Leaking faucets, toilets, etc...</li> <li>E. Brine line flow control out of place</li> </ul>	<ul style="list-style-type: none"> <li>A. Check brine refill setting for proper salt dosage</li> <li>B. Check water hardness and reevaluate capacity setting specification</li> <li>C. See problem #9.</li> <li>D. Repair or replace those items.</li> <li>E. Replace Brine line flow control.</li> </ul>
7. Loss of resin.	<ul style="list-style-type: none"> <li>A. Backwash controller missing.</li> <li>B. Faulty distributor tube assembly.</li> <li>C. Air being drawn in through brine system.</li> <li>D. Air in water supply system</li> </ul>	<ul style="list-style-type: none"> <li>A. Install backwash controller.</li> <li>B. Check distributor tube assembly for cracks or holes.</li> <li>C. Check for leaks in brine lines, fittings, or air check. Repair or replace.</li> <li>D. 1. Install upper distributor if missing. 2. Ensure that water supply system has an air eliminator.</li> </ul>
8. Softener delivers salty water.	<ul style="list-style-type: none"> <li>A. Low water pressure.</li> <li>B. Excessive water in brine tank.</li> <li>C. Wrong size injector.</li> </ul>	<ul style="list-style-type: none"> <li>A. Check incoming water pressure - Must remain at minimum of 25 psi.</li> <li>B. See problem #9.</li> <li>C. Install correct injector.</li> </ul>
9. Excessive water in brine tank.	<ul style="list-style-type: none"> <li>A. Plugged injector.</li> <li>B. Faulty piston/seal assembly.</li> <li>C. Plugged or kinked drain line.</li> <li>D. Backwash flow controller closed off.</li> <li>E. Defective brine line flow control.</li> </ul>	<ul style="list-style-type: none"> <li>A. Remove injector and clean ports.</li> <li>B. Replace piston/seal assembly.</li> <li>C. Correct any kinking or plugging of drain line.</li> <li>D. Check backwash flow controller.</li> <li>E. Replace brine refill flow control.</li> </ul>

# Troubleshooting

10. Softener fails to draw brine.	<ul style="list-style-type: none"> <li>A. Injector is plugged, absent/missing oring(s)</li> <li>B. Faulty piston assembly</li> <li>C. Brine line connection leak</li> <li>D. Drain line plugged creating excess back pressure</li> <li>E. Drain line too long or too high</li> <li>F. Low inlet pressure</li> </ul>	<ul style="list-style-type: none"> <li>A. Remove injector and clean ports/replace if necessary</li> <li>B. Check piston assembly</li> <li>C. Inspect brine line during refill cycle for leaks.</li> <li>D. Inspect drain line for blockage</li> <li>E. Refer to drain line specifications</li> <li>F. Increase inlet pressure to a minimum of 25 psi</li> </ul>
11. Continuous flow to drain.	<ul style="list-style-type: none"> <li>A. Piston assembly failure.</li> <li>B. Motor failure.</li> <li>C. Circuit board failure.</li> </ul>	<ul style="list-style-type: none"> <li>A. Replace piston assembly</li> <li>B. Replace motor</li> <li>C. Replace circuit board</li> </ul>
12. Loss of water pressure.	<ul style="list-style-type: none"> <li>A. Iron build-up in resin.</li> <li>B. Resin bed fouled with sand or sediment.</li> <li>C. Resin bed mushing due to high amount</li> </ul>	<ul style="list-style-type: none"> <li>A. See problem #13</li> <li>B. Re-bed softener and install sediment filter ahead of softener</li> <li>C. Re-bed softener. Install dechlorination system ahead of oxidizers in water supply (chlorine) of softener</li> </ul>
13. Iron in softened water.	<ul style="list-style-type: none"> <li>A. Iron has fouled resin bed.</li> <li>B. Iron is not in a soluble state.</li> <li>C. Prefilter failure.</li> <li>D. Iron level excessive.</li> <li>E. Control fails to regenerate.</li> </ul>	<ul style="list-style-type: none"> <li>A. Use iron reducing resin cleaner to clean resin bed, and increase salt dosage or regenerate more frequently or re-bed softener. Install an Iron System ahead of the softener.</li> <li>B. Test water to determine type of iron, install iron reduction system.</li> <li>C. Check prefilter.</li> <li>D. Install iron reduction system.</li> <li>E. See problem #3.</li> </ul>
14. Absent or incomplete LED display	<ul style="list-style-type: none"> <li>A. Transformer unplugged</li> <li>B. No electric power at outlet</li> <li>C. Defective transformer</li> <li>D. Battery &lt; 3 volts</li> <li>E. Defective PC board</li> </ul>	<ul style="list-style-type: none"> <li>A. Plug transformer into uninterrupted outlet</li> <li>B. Repair outlet or use working outlet</li> <li>C. Replace transformer</li> <li>D. Replace 2032 battery</li> <li>E. Replace PC board</li> </ul>
15. Control does not display correct	<ul style="list-style-type: none"> <li>A. Power outage &gt; 2 years</li> <li>B. Power outage &lt; 2 years, time of day flashing</li> </ul>	<ul style="list-style-type: none"> <li>A. Reset time of day time of day</li> <li>B. Replace lithium coin type battery on circuit board battery depleted Model 2032 battery</li> </ul>
16. No "softening" or "filtering" display when water is flowing	<ul style="list-style-type: none"> <li>A. Bypass valve in bypass position</li> <li>B. Meter connection disconnected</li> <li>C. Restricted/stalled meter turbine</li> <li>D. Defective meter</li> <li>E. Defective PC board</li> </ul>	<ul style="list-style-type: none"> <li>A. Put bypass valve in service position</li> <li>B. Connect meter to PC board</li> <li>C. Remove meter and check for free rotation, clean foreign material</li> <li>D. Replace meter</li> <li>E. Replace PC board</li> </ul>
17. Control valve regenerates at	<ul style="list-style-type: none"> <li>A. Twin Alternating softener can regenerate wrong time of day at any time</li> </ul>	
18. Relay does not energize		
a. <i>Relay driver programmed on "Time"</i>	<ul style="list-style-type: none"> <li>A. Programmed incorrectly</li> <li>B. Defective relay, See figure below</li> <li>C. Defective PC Board</li> <li>D. Faulty wire connections between PC board and relay</li> </ul>	<ul style="list-style-type: none"> <li>A. Reprogram</li> <li>B. Replace Relay</li> <li>C. Replace PC Board</li> <li>D. Check and repair wire connections</li> </ul>
b. <i>Relay driver programmed on "Gallons"</i>	<ul style="list-style-type: none"> <li>A. Programmed incorrectly</li> <li>B. Faulty meter connection</li> <li>C. Defective relay, See figure below</li> <li>D. Defective PC Board</li> <li>E. Faulty wire connections between PC board and relay</li> </ul>	<ul style="list-style-type: none"> <li>A. Reprogram</li> <li>B. Repair or replace meter assembly</li> <li>C. Replace Relay</li> <li>D. Replace PC Board</li> <li>E. Check and repair wire connections</li> </ul>
19. Relay energized during regeneration	<ul style="list-style-type: none"> <li>A. Relay programmed as "on REGEN gallons"</li> </ul>	<ul style="list-style-type: none"> <li>A. Reprogram</li> </ul>

# Water Conditioner

## Limited Warranty

We warrant this water conditioner, when installed according to factory recommendations, to be free from defects in materials and workmanship as follows:

### Limited Warranty

This water conditioner unit is assembled from the finest industry components available. Each individual component used in the assembly of our equipment is covered by the original equipment manufacturer's warranty. All components, except those specifically listed below, are warranted for a period of one (1) year from date of installation to the original purchaser to be free of defects in materials and workmanship subject to the manufacturer's conditions and/or the conditions shown below.

### Mineral Tanks

The fiberglass, polyglass or composite mineral tanks used in the assembly of this unit are warranted to be free of defects in materials and workmanship for a period of ten (10) years on 6" - 13" size tanks, and five (5) years on 14" and larger size tanks used for softener/filtration applications, subject to the original manufacturer's conditions and/or the conditions shown below. Warranty does not cover sandblasting of tank caused by faulty distribution systems, fractures caused by external impact and exposure to vacuum.

### Control Valves

The NWTS Series control valve (if used in the assembly of the unit) is warranted to be free of defects in materials and workmanship for a period of five (5) years subject to the original manufacturer's conditions and/or the additional conditions shown below.

### Conditions

1. This warranty only covers water conditioners installed for residential use. Water conditioners installed for commercial or industrial applications are guaranteed for one (1) year from the date of installation.
2. Installation must be made in accordance with legal or local codes and manufacturer's recommendations.
3. Failure must not result from misuse, alteration, fire, lightning, power surges or neglect.
4. Water pressure must not exceed 100 p.s.i. and water temperature must not exceed 100 degrees.
5. Damage or failure of a Product or Part caused by friction, wear, chemical attack, or debris build-up on wear parts. "Wear Parts" include, but not limited to: pistons, piston rods, seals spacers, end cap quad rings and brine valve on all piston operated valves, as well as valve disk flappers on Autotrol valves, and parts requiring replacement under recommended maintenance procedures, such as filter housing orings and gaskets.

Subject to the above terms and conditions we will replace and/or repair, at our option, any parts of the water conditioner found defective in materials and workmanship. Defective parts must be returned, freight pre-paid, by your dealer, who will supply a replacement furnished by the company. This warranty does not cover labor, shipping charges, damages caused by delays of consequential damages or other causes beyond our control.

This warranty is to the original purchaser and is not transferable after the third year to any subsequent owner(s).

No other guarantee or warranty, expressed or implied, is applicable to our product. No repair or replacement made under the terms of the warranty shall extend this warranty.

Installing Dealer \_\_\_\_\_

Dealer's Phone \_\_\_\_\_ Installation Date \_\_\_\_\_

