

## START-UP PROCEDURES FOR ELECTRONIC CONTROLLER:

- After installation is complete, rotate bypass handles to bypass mode (*see “Valves Closed” in Fig.3*).
- Turn on water and check for leaks.
- Fully open a cold water faucet — preferably a laundry sink or bathtub with no aerator.
- Allow water to run until clear to rid pipes of debris which may have occurred during installation.

**NOTE:** The system regeneration sequence for the Iron Soft Plus Conditioner.

Backwash  
Regenerate (Brine)  
Rapid Rinse  
Fill  
Service

The system is now ready for filling with water. For the purpose of filling the softener, leave the unit in the bypass position until the 2nd step, then repeat steps 1-6 with the unit full. **Do not open the bypass at this time**, it will be filled in the backwash position. Once the unit is filled with water (step 2), then open the bypass.

1. With the softener in the bypass mode (**“Bypass valve,” Fig. 3**) and the control valve in normal operation where the display shows either the time of day or the gallons remaining:

Manually add 5 GALLONS of water to the regenerant tank.

**NOTE:** If too much water is put into the brine tank during softener startup, it could result in a salty water complaint after the first regeneration.



During the first regeneration the unit will draw out the initial volume of brine/regenerant and refill it with the correct preset amount.

2. Press and hold the  button for 5 seconds.

**NOTE:** You will hear a click, indicating the valve will go into regeneration. There is a 10-second delay until the motor starts to advance, the unit is now in the backwash position. Once motor has stopped, open inlet handle (**“Valve B,” Fig. 3**) of the bypass valve **very slightly** allowing water to fill the tank **slowly** in order to expel air. Once air is expelled and water is running at drain, open inlet to control.



**CAUTION: If water flows too rapidly it could result in loss of media to the drain. When the water is flowing steadily to the drain without the presence of air, slowly open the inlet valve. Check that the drain can receive the flow of water. Restore power.**



3. Connect brine line to brine tank. Press  button again to put the valve into BRINE position. Display will flash No. 2 until position is reached. Check the brine line for section. Verify that water is being drawn from regenerant tank with no air leaks or bubbles in the brine line. There should be a slow flow to the drain.
4. Press  button and place unit into rinse position. Display will flash No.3 until position is reached. Check drain line to be secure and see that drain can receive the flow of water. There should be a rapid flow to the drain. Unplug transformer to keep the valve in the RINSE position. Allow to run until clear and without air. While the unit is rinsing, load the brine tank with water softener salt.

## START-UP PROCEDURES FOR ELECTRONIC CONTROLLER CONT'D:



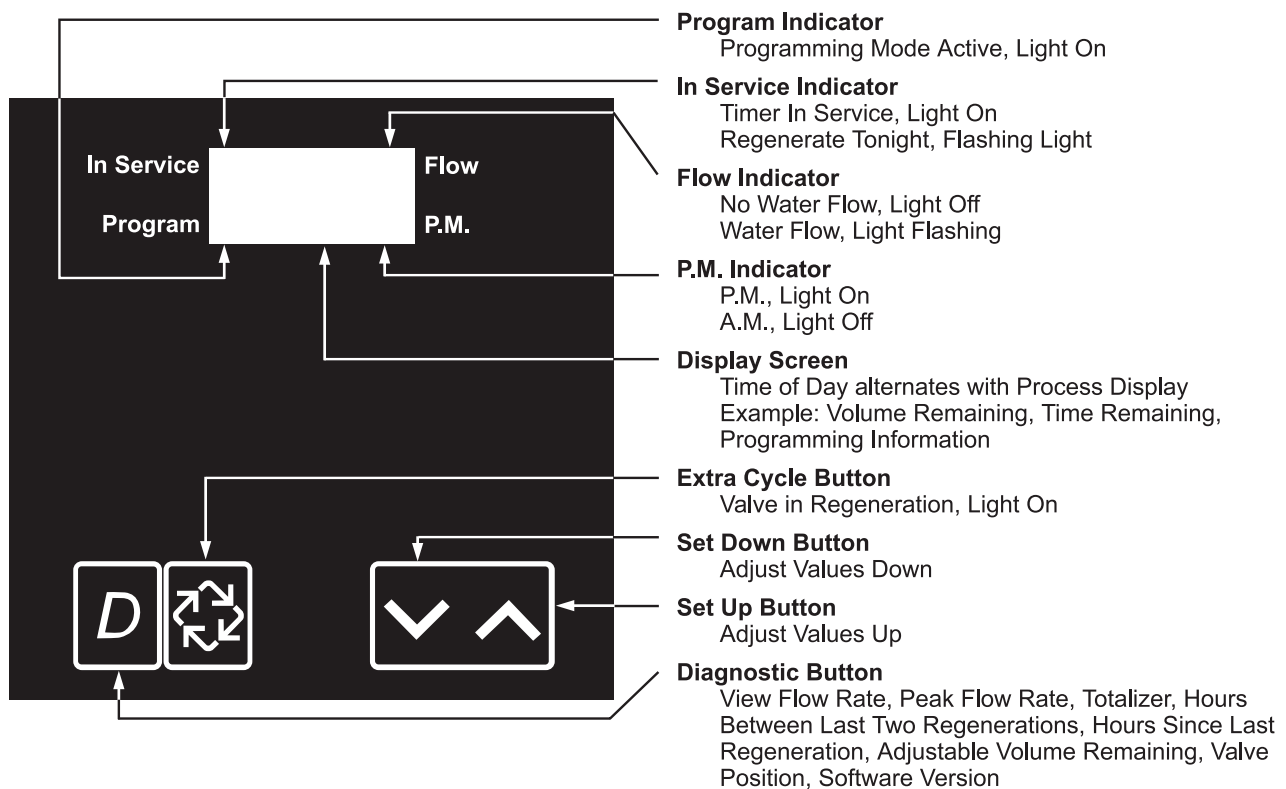
**CAUTION:** Damage or destruction to the media may occur if salts containing additives are used with the Iron Soft Plus models. Most "solar" and/or "block" salts do not contain additives detrimental to this unit. If unsure, please check with manufacturer. Many "pellet" or "cube" type salts are formulated with cleaning agents or additives which can cause harm to the media. Salt manufacturers do not always list additives in their products. Please check with salt manufacturers for any cleaning agents, binders or phosphate material added to salt.

**NOTE:** The manufacturer does recommend the brine tank be cleaned once a year to discard accumulated dirt from the salt.

5. Press the  button and place unit into the brine tank fill position. Check to verify that the regenerant tank is filling at a rate of 1/2 gallon per minute. Check Brine line connections for leaks.  
**NOTE:** See page 18, Safety Float Assembly, Item No. 2, for location of 1/2 gpm Refill Flow Control.
6. Press  button again, valve will cycle back to the normal operating position with the time of day and gallons remaining displayed.
7. Repeat steps 1-6 and now check the various cycles for proper operation.
8. Once the cycle operation has been verified, place bypass valve in the normal operating mode ("**Valves Open,**" **Fig. 3**) by opening the outlet bypass handle.
9. Go to laundry tub or bathtub faucet, preferably a faucet without an aerator, and turn on the cold water, let the water run. Note the color of water coming from faucet. If discolored let water run until clear.

**NOTE:** At no time should there be "large particles" of media noticed at faucet or laundry tub. If this is seen, immediately shut off water and bypass system as this could be an indication of a distributor failure. Contact manufacturer or distributor for assistance.

## TIMER DISPLAY DESCRIPTION:



## TIMER OPERATION:

### Set Time of Day

When the timer is In Service, push either the Set Up or Set Down button once to adjust the Time of Day by one digit. Push and hold to adjust by several digits.

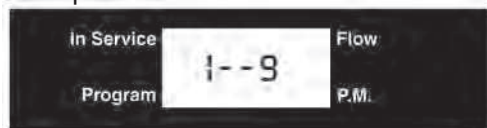
### Manually Initiating a Regeneration

1. When timer is In Service, press the Extra Cycle button for five seconds to force a manual regeneration.  
**NOTE:** You will hear a click, indicating the valve will go into regeneration. There is a 10-second delay until the motor starts to advance.
2. The timer reaches Regeneration Cycle Step #1.
3. Press the Extra Cycle button once to advance valve to Regeneration Cycle Step #2 (if active).
4. Press the Extra Cycle button once to advance valve to Regeneration Cycle Step #3 (if active).
5. Press the Extra Cycle button once to advance valve to Regeneration Cycle Step #4 (if active).
6. Press the Extra Cycle button once to advance valve to Regeneration Cycle Step #5 (if active).
7. Press the Extra Cycle button once more to advance the valve back to In Service

### Timer Operation During Regeneration

In the Regeneration Cycle step display, the timer shows the current regeneration step number the valve is advancing to, or has reached, and the time remaining in that step. The step number that displays flashes until the valve completes driving to this regeneration step position. Once all regeneration steps are complete, the timer returns to In Service and resumes normal operation.

Example:



Less than 10 Minutes Remaining  
in Regen Step #1



Press the Extra Cycle button during a Regeneration Cycle to immediately advance the valve to the next cycle step position and resume normal step timing.

### Start a Regeneration Tonight

With metered delayed timers, press the Extra Cycle button momentarily. The In Service indicator dot flashes and starts a Regeneration tonight at the programmed Regeneration Time.

### Day Regeneration Timer

During normal operation the Time of Day display is visible at all times. The timer operates normally until the number of days since the last regeneration reaches the Regeneration Day Override setting. Once this occurs, a regeneration cycle is initiated at the preset Regeneration Time.

### Flow Meter Equipped Timer

During normal operation the Time of Day display alternates with the Volume Remaining display (gallons or m3).

- As treated water is used, the Volume Remaining display counts down from the calculated system capacity to zero or (----). When this occurs a Regeneration Cycle begins or delays to the set Regeneration Time.
- Water flow through the valve is indicated by the Flow Dot that flashes in a direct relationship to flow rate.

# PROGRAMMING THE ELECTRONIC CONTROLLER:



## 1. Enter 3200NT Programming Mode

Press and hold both the Set Up and Set Down buttons for five (5) seconds to enter Programming Mode. When the program mode is entered, the program light illuminates.



## 2. Set Feed Water Hardness

The feed water hardness setting displays only if the Regeneration Type is set to Meter Immediate or Meter Delayed.



- Press the Set Up and Set Down buttons to set the amount of feed water hardness (in grains/gallon). The system automatically calculates treated water capacity based on the feed water hardness and the system capacity.
- Press the Extra Cycle button to proceed to the next step.

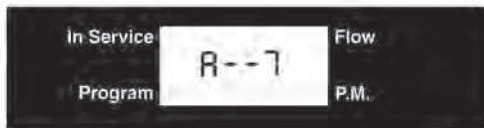


## 3. Set Regeneration Time

A non-flashing colon between two sets of numbers identifies the Regeneration Time display. Set the desired time of day that you want Regeneration to occur.



- Press the Set Up and Set Down buttons to adjust this value.
- Press the Extra Cycle button to proceed to the next step.



## 4. Set Regeneration Day Override

Use this display to set the maximum amount of time (in days) the unit can be In Service without a Regeneration.



**NOTE:** The manufacturer has preset this to every 6 days.

- For System 4 Time Clock regeneration mode, the system regenerates at the time set in Step 4 after the number of days programmed in this step.
- For all other System Types (4 Meter Immediate, 4 Meter Delayed, 5, 6, 7, 9), the system regenerates after the number of days programmed in this step unless the meter initiates a Regeneration cycle earlier.
- Press the Extra Cycle button to proceed to the next step.

Timer programming is complete and exits from the Programming Mode. Normal operation resumes.