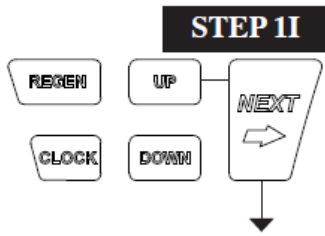




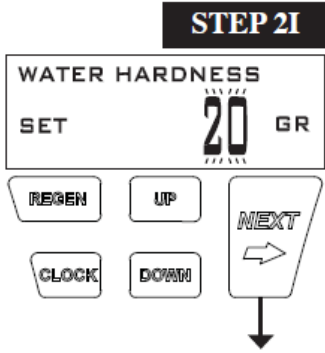
INSTALLER'S MANUAL

THIS MANUAL IS TO BE LEFT WITH THE OWNER OF THE EQUIPMENT FOR REFERENCE PURPOSES AND TECHNICAL GUIDANCE. IT IS STRONGLY RECOMMENDED THAT QUALIFIED DEALER SERVICE PERSONNEL BE CONTACTED IN THE EVENT OF AN UNKNOWN INTERRUPTION OF SERVICE OR APPARENT PRODUCT MALFUNCTION. AN ANNUAL PREVENTATIVE MAINTENANCE INSPECTION BY A WATER PROFESSIONAL IS RECOMMENDED TO ENSURE TROUBLE-FREE AND CONTINUOUS OPERATION.

INSTALLER SETTINGS



Step 1I – Press NEXT and UP simultaneously for 3 seconds.



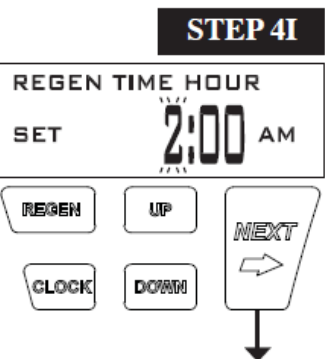
Step 2I – Hardness: Set the amount of hardness in grains of hardness as calcium carbonate per gallon using DOWN or UP. The default is 20 with value ranges from 1 to 150 in 1 grain increments. Note: The grains per gallon can be increased if soluble iron needs to be reduced. This display will not show if “FILTERING” is selected in Step 2F or if “AUTO” is not selected in Set Volume Capacity in Softener System Setup. Press NEXT to go to Step 3I. Press REGEN to exit Installer Display Settings.



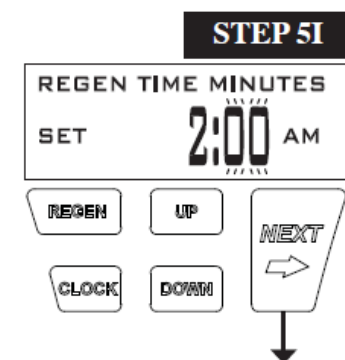
Step 3I – Day Override: When volume capacity is set to “OFF”, sets the number of days between regenerations. When volume capacity is set to “AUTO” or to a number, sets the maximum number of days between regenerations. If value set to “OFF”, regeneration initiation is based solely on volume used. If value is set as a number (allowable range from 1 to 28) a regeneration initiation will be called for on that day even if sufficient volume of water was not used to call for a regeneration. Set Day Override using DOWN or UP:

- number of days between regeneration (1 to 28); or
- “OFF”

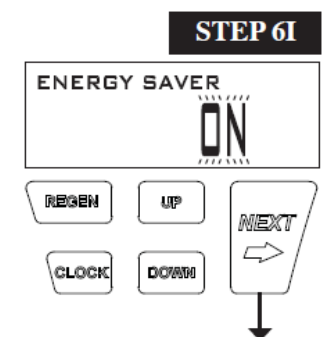
See Setting Options Table for more detail on setup. Press NEXT to go to Step 4I. Press REGEN to return to previous step.



Step 4I – Next Regeneration Time (hour): Set the hour of day for regeneration using DOWN or UP. AM/PM toggles after 12. The default time is 2:00 AM. This display will show “REGEN IMMEDIATE ON ZERO GAL” if “IMMEDIATE” is selected in Set Regeneration Time Option in Softener System Setup Step 9S. Press NEXT to go to Step 5I. Press REGEN to return to previous step.



Step 5I – Next Regeneration Time (minutes): Set the minutes of day for regeneration using DOWN or UP. This display will not be shown if “IMMEDIATE” is selected in Set Regeneration Time Option in Softener System Setup Step 9S. Press NEXT to go to Step 6I. Press REGEN to return to previous step.

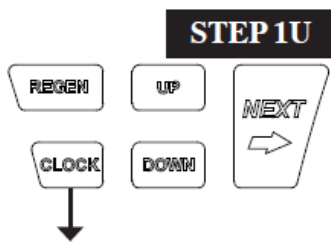


Step 6I – Energy Saver operation. When set to OFF, the display backlight is always on. When set to ON, the display backlight will go off after 5 minutes of no keypad activity. A valve error or salt level alert will activate the display backlight, and prevent deactivation until the error or alert is reset by the user. Press NEXT to exit Installer Display Setting. Press REGEN to return to the previous step.

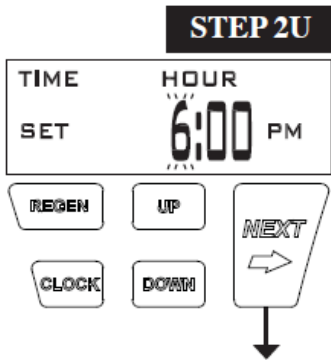
RETURN TO NORMAL MODE

SET TIME OF DAY

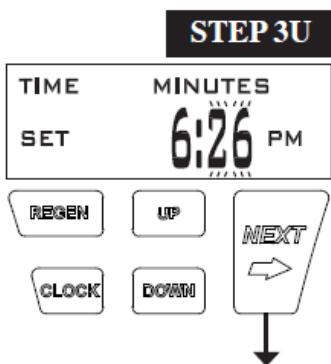
Time of day should only need to be set if the battery has been depleted because of extended power outages or when daylight saving time begins or ends. If an extended power outage occurs, the time of day will flash on and off which indicates the time of day should be reset. The non-rechargeable battery should also be replaced.



Step 1U – Press CLOCK.



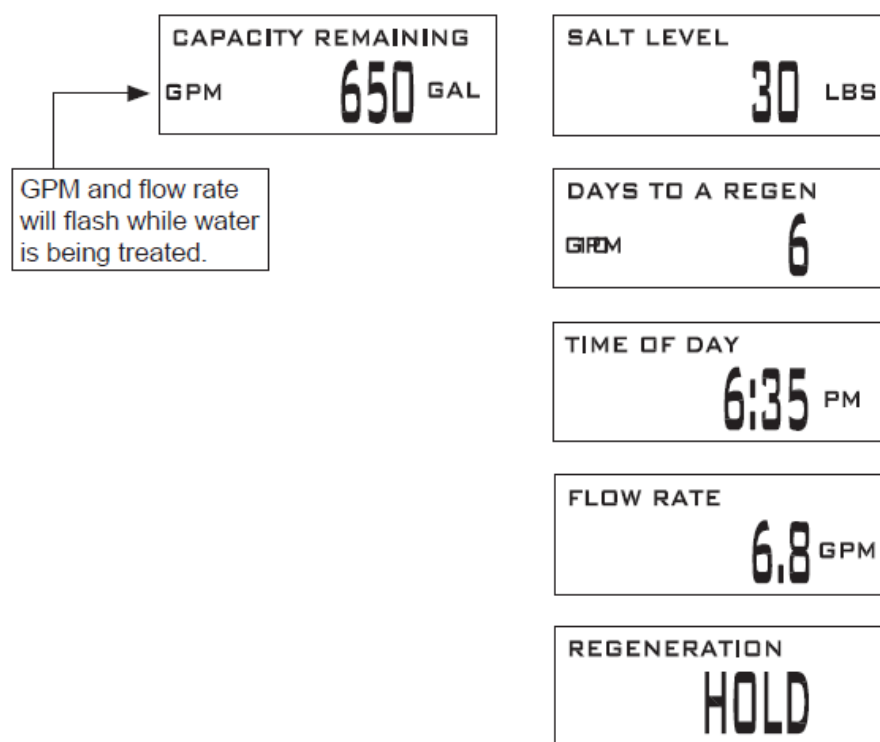
Step 2U – Current Time (hour): Set the hour of the day using DOWN or UP. AM/PM toggles after 12. Press NEXT to go to Step 3U.



Step 3U – Current Time (minutes): Set the minutes of the day using DOWN or UP. Press NEXT to exit Set Time of Day. Press REGEN to return to previous step.

RETURN TO NORMAL MODE

NORMAL OPERATING DISPLAYS



When the system is operating, several displays may be shown. Pressing NEXT will alternate between the displays. One of the displays is the current time of day. CAPACITY REMAINING is the gallons that will be treated before the system goes through a regeneration cycle. Pressing DOWN while in the Capacity Remaining display will decrease the capacity remaining in 10 gallon increments. DAYS TO A REGEN is the number of days left before the system goes through a regeneration cycle. Pressing UP or DOWN while in this screen will temporarily increase or decrease the displayed value by 1 day. Another display shows the current treated water flow rate through the system. If the system has called for a regeneration that will occur at the pre-set time of regeneration, the words REGEN TODAY will alternate with the header on the display. If Salt Level Monitor has been set on “ON”, the Salt Level screen will appear. To adjust the salt level, press CLOCK, and use UP or DOWN to set the current value. The salt level is adjustable from 0 to 500 lbs. in 10 lb. increments.

REGENERATION MODE

Typically, a system is set to regenerate at a time of low water usage. An example of time with low water usage is when a household is asleep. If there is a demand for water when the system is regenerating, untreated water will be used.

When the system begins to regenerate, the display will change to include information about the step of the regeneration process and the time remaining for that step to be completed. The system runs through the steps automatically and will reset itself to provide treated water when the regeneration has been completed.

MANUAL REGENERATION

Sometimes there is a need to regenerate the system sooner than when the system calls for it, usually referred to as manual regeneration. There may be a period of heavy water usage because of guests or a heavy laundry day.

To initiate a manual regeneration at the preset delayed regeneration time, when the regeneration time option is set to "DELAYED REGEN" or "DELAY+IMMEDIATE", press and release "REGEN". The words "REGEN TODAY" will periodically be shown on the display to indicate that the system will regenerate at the preset delayed regeneration time option is set to "IMMEDIATE" there is no set delayed regeneration time so "REGEN TODAY" will not activate if "REGEN" button is pressed.

To initiate a manual regeneration immediately, press and hold the "REGEN" button for three seconds. The system will begin to regenerate immediately. The request cannot be cancelled.

NOTE: For softeners, if brine tank does not contain salt, fill with salt and wait at least two hours before regenerating.

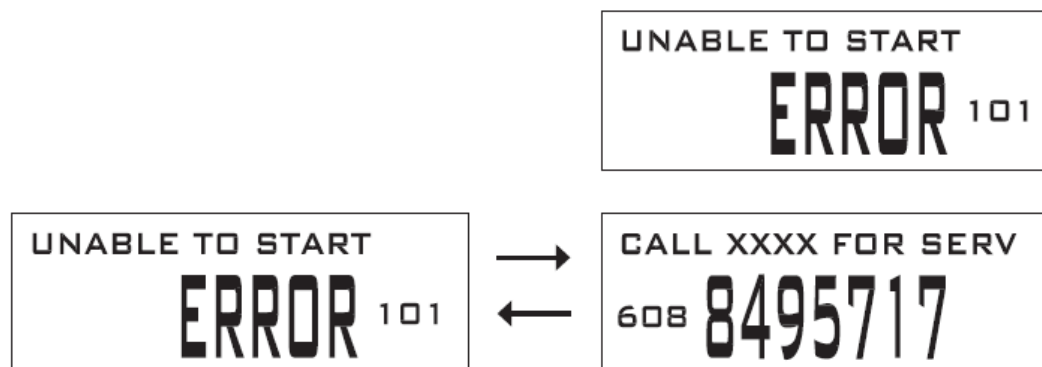
POWER LOSS & ERROR DISPLAY

POWER LOSS

If the power goes out, the system will keep time until the battery is depleted. If an extended power outage occurs, the time of day will flash on and off which indicates the time of day should be reset and the non-rechargeable battery replaced. The system will remember the rest.

ERROR MESSAGE

If the word "ERROR" and a number are displayed, contact the dealer or manufacturer for help. This indicates that the valve was not able to function properly.



LOW SALT WARNING (optional)

Once the salt remaining has gone below the set point, the display will automatically show "SALT LEVEL IS LOW" on the screen and a word "ALERT" flashes.

RESETTING THE SALT AMOUNT AFTER ADDING

Step 1 – Press the NEXT button until SALT LEVEL appears in the display.

Step 2 – Press CLOCK.

Step 3 – Use UP or DOWN to adjust the pounds remaining in the brine tank. Estimate the pounds of salt in the brine tank and add it to the amount of salt added to the brine tank.

Example: 200 lbs. of salt being added to a brine tank that has 40 lbs before adding, the number of SALT LEVEL should adjust to 240.

Step 4 – Press CLOCK to exit Salt Level Set.

Step 5 – Press NEXT to return to TIME OF DAY.

TROUBLESHOOTING PROCEDURES

Problem	Cause	Solution
1. Timer does not display time of day	a. Transformer unplugged	a. Reconnect transformer
	b. No power to outlet	b. Repair or use working outlet
	c. Defective transformer	c. Replace transformer
	d. Defective PC board	d. Replace PC board
2. Timer does not display correct time of day	a. Outlet is on a switch	a. Use un-switched outlet
	b. Power outage	b. Reset time of day
	c. Defective PC board	c. Replace PC board
3. No softening/filtering display when water is flowing	a. Bypass valve in bypass position	a. Put bypass in SERVICE position
	b. Meter cable disconnected	b. Reconnect to PC board
	c. Restricted/stalled meter turbine	c. Remove meter and check for debris
	d. Defective meter	d. Replace meter
	e. Defective PC board	e. Replace PC board
4. Unit regenerates at wrong time of day	a. Past power outage	a. Reset time of day
	b. Wrong time of day displayed	b. Reset time of day
	c. Time of regeneration set wrong	c. Reset time of regeneration
	d. Control set at "on 0"	d. Check with regen time option in programming
	e. Control set at NORMAL + on 0	e. Check with regen time option in programming
5. ERROR CODES: 1001 – Unable to recognize start of regeneration 1002 – Unexpected stall 1003 – Motor ran too long. Timed out trying to reach next cycle position If other codes appear, contact factory	a. Valve has just been serviced	a. Press NEXT and REGEN for 3 seconds or momentarily unplug power source from PC board
	b. Foreign material stuck in valve	b. Check piston and spacer for obstruction
	c. Excessive piston resistance	c. Replace piston(s) and space stack assy
	d. Piston not in-home position	d. Press NEXT and REGEN or momentarily unplug PC board power
	e. Motor gears not fully engaged. Motor wires broken. Failed motor	e. Check motor and wiring
	f. Center drive gear reflector dirty or damaged. Missing or broken gear.	f. Replace or clean drive gear(s)
	g. Drive bracket incorrectly aligned on back plate	g. Reset drive bracket
	h. PC board is damaged or defective	h. Replace PC board
	i. PC board incorrectly aligned on drive bracket	i. Reset PC board onto drive bracket
6. Valve stalled in regeneration	a. Motor not operating	a. Replace motor
	b. No power at outlet	b. Repair outlet or use working outlet
	c. Defective transformer	c. Replace transformer
	d. Defective PC board	d. Replace PC board
	e. Broken drive gear or drive cap assy	e. Replace gear or drive cap assy
	f. Broken piston retainer	f. Replace drive cap assembly
	g. Broken main or regenerant piston	g. Replace main or regenerant piston
7. Valve does not regenerate automatically when REGEN button is pressed	a. Transformer unplugged	a. Connect transformer and PC board power
	b. No power at outlet	b. Restore power
	c. Broken drive gear or cap assembly	c. Replace gear or drive cap assembly
	d. Defective PC board	d. Replace board
8. Valve does not regenerate automatically but does when REGEN button is pressed	a. Bypass valve not in Normal Operating Mode	a. See bypass diagrams
	b. Meter disconnected	b. Reconnect to PC board
	c. Obstructed meter turbine	c. Clear obstruction
	d. Defective meter	d. Replace meter
	e. Programming error	e. Review programming
	f. Defective PC board	f. Replace board
9. Time of day flashes on and off	a. Power has been out more than two hours. Transformer was unplugged from either wall outlet or from PC board. NEXT and REGEN were pressed to reset the valve	a. Reset time of day

THIS PAGE HAS BEEN LEFT BLANK INTENTIONALLY

**PLEASE FILL OUT THE INFORMATION ON THE BACK OF THE CARD AND CUT ALONG
THE DASHED LINE. MAIL THE WARRANTY REGISTRATION CARD TO VALIDATE YOUR
WARRANTY.**

Affix
Postage
here

**PRODUCT WARRANTY REGISTRATION CENTRE
UNIT 1 - 652 BISHOP STREET NORTH
CAMBRIDGE, ON
CANADA N3H 4V6**



www.H2O4Life.ca

WARRANTY REGISTRATION

IMPORTANT! THIS CARD MUST BE MAILED TO VALIDATE WARRANTY!

Name: _____

Address 1: _____

Address 2: _____

City/Town: _____ Postal/Zip Code: _____

Province/State: _____ Country: _____

Email Address: _____

Where Purchased: _____

Date Purchased: _____ Date Installed: _____

Model Number: **H2ORO400**