

# ELECTRONIC CONTROL BOARD (PWA) REPLACEMENT

**IMPORTANT:** BE SURE THE VALVE CAM INDICATES "SERVICE" POSITION (See Figure 1) WHEN REPLACING THE ELECTRONIC CONTROL BOARD (PWA), TO ASSURE BOTH VALVE AND PWA ARE ORIENTED, OR TIMED, TO THE SAME CYCLE. If the valve is not in Service position, see step 13 below.

**NOTE:** When installing the electronic control board (PWA) on the faceplate, use care not to twist the circuit board, or force it onto the mounting pegs. Twisting could damage the printed circuits, or break the display glass.

1. Unplug the system's power supply.
2. Remove the system's top cover to expose the back of the faceplate and the valve.
3. Unplug the wiring connections from the back of the old Electronic Control Board (See Figure 2).
4. Carefully remove the old board by unsnapping it from its retainer tabs.
5. Carefully snap the new Electronic Control Board into the retainer tabs.
6. Reconnect the wiring to the new board (See Fig. 2).
7. Plug the power supply into the electrical outlet.  
A number shows in the display for a few seconds, followed by a flashing "----".

**NOTE:** If "----" is not flashing in the display, press and hold the SELECT button until a model code appears.

8. Use the  $\Delta$  UP or  $\nabla$  DOWN buttons to select the correct model code for your softener (see table below).

Softener Model	Model Code to select
EP31	EP31
EP42	EP42
EPHS	EPHS
NSC22	nS22
NSC31	nS31
NSCWC	nSAC

9. With the correct model code displayed, press the SELECT button. The electronic controller will restart, briefly displaying the model code you set.
10. Press the  $\Delta$  UP or  $\nabla$  DOWN buttons to set the present time. Up moves the display ahead; down sets the time back. Be sure AM or PM is correct.

**NOTE:** Press buttons and quickly release to slowly advance the display. Hold the buttons down for fast advance.

11. Press the SELECT button a few times, until the time appears on the display, but is not flashing.
12. For information about programming additional features of the softener, consult your owner's manual.
13. If the valve is not in Service position, press the RECHARGE button and hold for 3 seconds to start a recharge cycle. The display will flash "RECHARGE." In about 2 hours the recharge cycle will be complete and the valve and electronic control board will be properly oriented together.

**NOTE:** To save time, use the manual advance procedures to properly time and check operation. See service information in the manual.

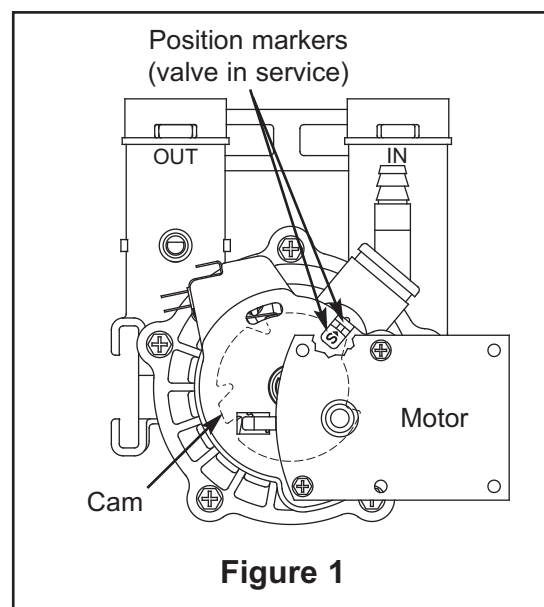


Figure 1

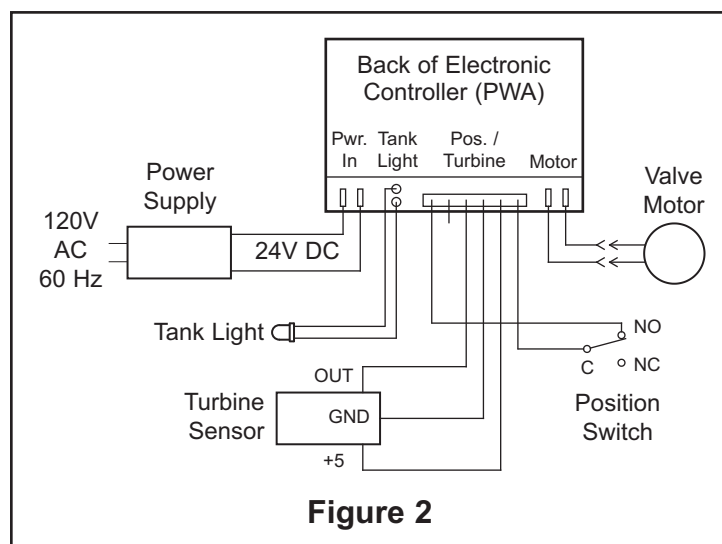


Figure 2

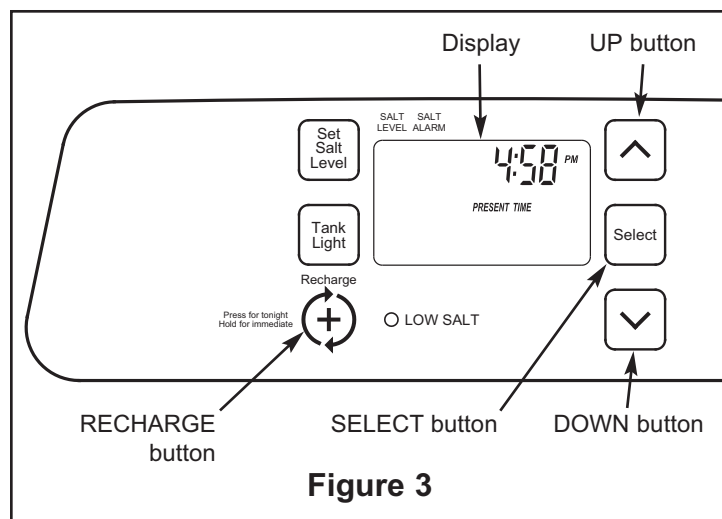


Figure 3