

# 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 water softener's power supply.
2. Remove the top cover to expose 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 Figure 2).
7. Plug the power supply into the electrical outlet. A number shows in the display for a few seconds, followed by flashing "- - - - -".

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

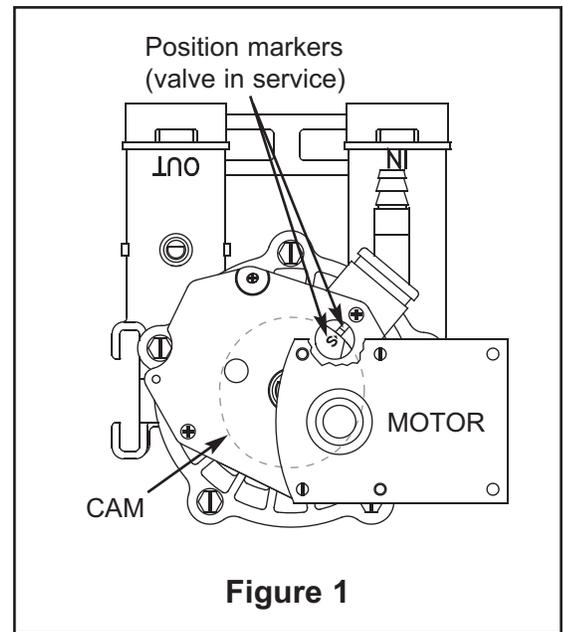
8. Use the ▲ UP or ▼ DOWN buttons to set the correct model code for your softener (see table below).

Model Number	Date Built	Date Code (on decal inside cover)	Model Code to select
M20	Any	Any	o20*
M27 or EP27	Any	Any	o27*
M30, MC30, EP30 or EP100	Any	Any	o30*
MSD20F	Any	Any	Sr19
MSD27B	Any	Any	Sr22
MSD30D	Before July 15, 2005	04001 thru 05194	LE30
MSD30D	July 15, 2005, and after	05195 and higher	LE31
MSD34C	Any	Any	Sr28
MW30	Any	Any	LE31
MW40	Any	Any	LE39
WSD27C	Any	Any	Sr22
WSD39D	Any	Any	Sr32

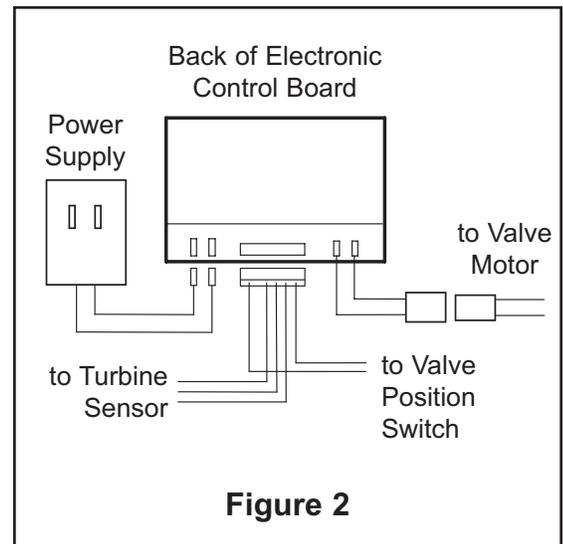
9. With the correct model code displayed, press the SELECT button. The electronic controller will restart, briefly displaying the model code you set.
10. Press the ▲ UP or ▼ DOWN buttons to set the present time. Up moves the display ahead; down sets the time back. Be sure AM or PM is correct.
11. Press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

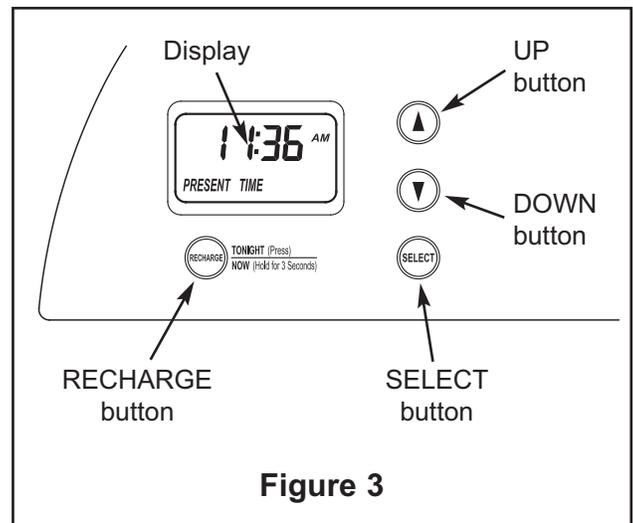
\* **Model codes o20, o27 and o30:** This replacement controller has a new feature that may not have been on your system before. Every 4 months, "CLEAn" is displayed as a reminder to use water softener cleanser on your system. Press any button to clear this display.



**Figure 1**



**Figure 2**



**Figure 3**