

# ELKAY®

## Control Board Replacement Instructions

### IMPORTANT

Before beginning the install, remove the control board assembly from package and write down the serial number that is located on the back of the board.

This will be needed later in the install.

Control  
Board Number



**RECORD NUMBERS HERE FOR REFERENCE:**

**SERIAL NUMBER OF COOLER** \_\_\_\_\_

**CONTROL BOARD NUMBER**

\_\_\_\_\_/\_\_\_\_\_/\_\_\_\_\_/\_\_\_\_\_/\_\_\_\_\_/\_\_\_\_\_/\_\_\_\_\_/\_\_\_\_\_/\_\_\_\_\_

**PLEASE REGISTER THIS INFORMATION BY CALLING 1-800-260-6640**

or

**EMAILING: [svtechservice@elkay.com](mailto:svtechservice@elkay.com)**

## INSTRUCTIONS FOR CHANGING OUT CONTROL BOARD ASSEMBLY

1. **Remove four screws located on bottom of lower wrapper.** (If the cooler is a Bi-Level unit, also remove the wrapper from the non-refrigerated side. The filter head is located in the non-refrigerated side of the unit.)
2. **Shut off water supply** and activate bottle filler to relieve water pressure.
3. **IMPORTANT: Unplug unit at power source.**
4. **Remove two screws in top cover of bottle filler** using a 5/32 Allen wrench. Set screws aside to reuse.
5. **Remove bottle filler off of bracket** and disconnect water line from the quick connect fitting. Unplug wiring harness from basin. Set bottle filler aside.
6. **Remove basin connection** by pressing tabs on each side to unlock from basin. Push through basin to inside of cooler.
7. **Unhook drain and remove screws** holding basin shroud to unit using a T-20 bit. (If unit is a Bi-Level, the non-refrigerated cooler will need to be removed to access the screws on the left hand side of cooler shroud).
8. **Lift up on basin and disconnect shroud,** push wires from solenoid and black wire plug in connection. Remove water tube from solenoid by pushing in on collet and pulling tube out. Set basin aside. Cut cable tie that holds basin connection harness on heat exchanger. (On refrigerated model only)
9. **Remove rubber cap off of evaporator bulbwell** located on front of the tank (on refrigerated model only). Set aside for reuse.
10. **Remove thermistor wire** from bulbwell.
11. **Cut cable tie from condenser thermistor** located near the drier on condenser outlet (on refrigerated model only).
12. **Unplug white wire connected to the snubber** attached to the cooler solenoid. (If cooler is a Bi-Level unit, unplug the connection to the non-refrigerated cooler attached to this wire.)
13. **Unplug black wire connected to shroud push wire.** (If cooler is a Bi-Level unit, unplug the connection to the non-refrigerated cooler attached to this wire.)
14. **Unplug NFC wire harness from NFC board** located on filter head. (On a Bi-Level unit filter head is in non-refrigerated unit).

### ON REFRIGERATED MODELS ONLY:

1. **Remove cap** from compressor
2. **Unplug orange wire** from the overload on compressor
3. **Unplug white wire** from the power cord to the relay on compressor
4. **Unplug red wire** connected to terminal on fan wire
5. **Remove ground screw** on right hand side of frame
6. **Unplug wire** from male terminal on power cord
7. **Remove wires from clip** on underside of evaporator shelf.
8. **Cut the power cord** and remove the power cord from behind the evaporator tank (on refrigerated model only).
9. **Remove two screws** holding control board assembly bracket from back right hand side of frame. Set aside to reuse.
10. **Remove control board assembly** from unit.
11. **Place new control board assembly** in cooler making sure no wires become lodged behind the assembly. Attach using the two screws from previous removal.
12. **Attach control board ground wire** to side of frame with screw previously removed.
13. **Place the power cord** under the evaporator shelf using the supplied gray clip.
14. **Separate the basin connection harness** from wires.
15. **Take remaining wires** and feed through holder underneath evaporator shelf. (If one is not in place, add from kit).
16. **For the non-refrigerated single side unit,** place remaining wires in holder underneath shelf.

## INSTRUCTIONS FOR CHANGING OUT CONTROL BOARD ASSEMBLY

### ON REFRIGERATED MODELS ONLY:

1. **Re-connect orange wire to the overload** on compressor
2. **Re-connect the white wire from the power cord** to the fan terminal attached to relay on compressor
3. **Re-connect the red wire to terminal connection** on fan wire
4. **Replace compressor cap.**
5. **Plug in connection to the male terminal** on the power cord
6. **Attach white wire with female end to snubber** attached to the cooler solenoid terminal. (On Bi-Level unit only plug in white extension wire from non-refrigerated cooler).
7. **Attach black wire with male end to push activation wire** on basin/shroud assembly. (On Bi-Level unit only plug in black extension wire from non-refrigerated cooler).
8. **IMPORTANT: On refrigerated cooler apply thermal paste to the ends of both black thermistor wires.**
9. **IMPORTANT: Feed the black tipped thermistor wire** into the bulbwell tube located on the front of the evaporator tank until inserted to white line on thermistor wire. Place rubber cap that was removed previously over thermistor wire to secure.
10. **Attach the metal tipped thermistor wire** on to the condenser outlet near the drier and attach firmly with a cable tie.
11. **Route harness around tank** and place between the evaporator tank and the heat exchanger to keep wires away from fan blade. (On refrigerated model only)
12. **Apply cable tie around harness** and attach to heat exchanger allowing enough slack to route connector through the basin.
13. **Attach harness to heat exchanger** using cable tie. On a Bi-Level unit route to non-refrigerated side.
14. **Verify that the wiring harness** is clear of fan blade.
15. **Plug in wire to NFC board** on filter head bracket.
16. **Place the basin on the cooler** and push basin connection through opening on basin to lock in place. Re-connect shroud wires placing one on snubber attached to the cooler solenoid and the other to the black plug connection from control board assembly.
17. **Plug water line into solenoid** making sure it is inserted fully. Pull water line down when aligning basin to ensure water line does not interfere with the fan blade.
18. **Replace basin screws** previously removed. Spin fan blade to check for any obstruction.
19. **Hook up drain.**
20. **Place bottle filler back on cooler.** Plug in wire harness to basin connection. Insert water line into quick connect fitting making sure it is pushed in all the way. Hook bottle filler to back plate. Replace top screws that were previously removed.
21. **Turn water on** and restore power.
22. **Purge air from all water lines** (including bottle filler at dispensing point) by depressing button or front push bar of cooler to which it is connected. Steady stream assures all air is removed.