

Changing the Heat Control Board in the LEDCO Professor

**Before replacing the heat control board in the Professor, always check to see if the machine is set in the proper mode (Fahrenheit/Celsius). Remember 250 F is about 130 C so if the machine seems to laminate at about half the temperature it should, this is a distinct possibility. To check the mode turn the machine on, hold the blue button down for about 5-7 seconds. The screen will display either a C or an F for the mode it is in. Letting up on the button and hitting it again will allow you to scroll between C and F modes. Once it is in the mode you want. Wait for 5 seconds and the control will go back to heat mode. To change the laminating temperature, press the red button and release. Then hold the red button down. The control is now in set mode and then you can use the red and blue buttons to get to the desired temperature.

The Heat Control board is located underneath the center screen on the control panel side. To access the board you will need to remove the 2 screws which hold the screen on and remove it. There are 6 wires and a multi-pin ribbon cable attached to the board. Note the colors and the pins that the wires are attached to. I have included a wiring diagram for you to refer to. It is best to label these wires however they will be difficult to reach as they are tied firmly together.

Remove the wires with long needle nose pliers.

The board is mounted on standoffs which are threaded on both sides. You can unscrew them from the bottom of the machine. The board must then be maneuvered around until you can get it out. It is a tight fit but it will come out. If you have an assistant with small hands they will have better luck.

Remove the standoffs from the old board and install them on the new one. Reinstall the board. ***Don't tighten the mounting screws until you get them all started.*** Hook all of the wires back up. At this point I would test the machine before going further. You will note that the heat control kit comes with a new ribbon cable and a new display. These components rarely fail. If the machine functions ok, then put the screen back on and you're all set.

If you need to replace the display unit, remove the ride side cover. The display board is held on by (4) plastic acorn nuts. Remove these and the panel will come right out. Transfer the red and blue buttons from the old panel to the new one. Reinstall the panel. **IMPORTANT:** Only tighten the thumbscrews finger tight, and not as tight as you can get them either. If they twist the display you will get a whole host of errors from half characters to nothing at all. This will also cause the heat to either not come on or to run wild. The display is where the control board gets the information it needs to turn the heat relay on and off. Once the panel is installed be sure the buttons move freely. A sticky red or blue button can also cause an error. Finally, if you think you need to replace the ribbon cable, you'll need to simply cut all of the zip ties and install the new ribbon cable. Don't pinch it!

If you have any questions/problems feel free to call LEDCO Service at:
1-800-937-9293 X 309